

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: KB0VCC <dalea@artemis.fc.hp.com>
Subject: [10121] 2m CW kits/designs/etc?
Message-ID: <9701280016.AA20059@artemis.fc.hp.com>

Hi Gang,

Like Brian, I too am looking for 2m rig info, but specifically, 2m CW designs. I'd REALLY like to see something in the ultra-simple, bare bones transceiver category. Spare me the schematics of your FT-736, Hi hi. Any VHF D-C designs out there? If not, why? Given all of the off-the-shelf VHF/UHF linear devices and filters, etc out there, it looks almost plug-n-play.

Tnx es 72!
de Dale, KB0VCC
Fort Collins, CO
QRP-L #91 / CQC #251

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: wd4et@juno.com
Subject: [10231] 2N2222 T0-18 vs T0-92
Message-ID: <19970128.155820.13390.2.wd4et@juno.com>

I have been unable to locate the plastic case 2N2222 for the 38spc TiCK mod.

I did have one of the metal can versions of the 2N2222 in my parts box. I don't believe it should make a difference but wanted to check here on the list.

After all, I'm just one of the lemmings! (And loving it.)

Thanks, Jeff WD4ET

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Dave.Ackrill@westwood45.powergen.co.uk
Subject: [10247] 3.560 MHz Crystal Source
Message-ID: <970129000008Z*/G=Dave/S=Ackrill/O=westwood45/PRMD=POWERGEN/ADMD=CWMAIL/C=GB@MHS>

Hi Randy,

Try Kanga Products, they have an outlet in the States. They have crystals for most of the QRP frequencies in stock. I just ordered ones for 3.560, 7.030 (the 40M QRP freq. over here), 10.116 and 14.060 MHz.

Hope this helps.

Try email to dick@kanga.demon.co.uk or visit the Kanga Products website (I found it by entering "Kanga" in the Yahoo web search engine but can't remember the URL - Sorry)

Cheers de Dave (G0DJA)

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>
Subject: [10221] 38 Special Status
Message-ID: <1.5.4.16.19970128114636.37a7d682@telis.org>

Here is the latest on the shipping status of the 38 Special. We have been held up because we ran out of the first run of boards, and we ran out of covers and data sheets for the manuals. Good news. Today, I will drive to Mountain View and pick up 500 more boards. That solves the board problem.

Last Tuesday Paul shipped me the covers and the data sheets via UPS 3 day service. He was told by UPS that there would not be a problem getting it to Dos Palos by Friday. This would have been great, as my daughter, who lives in Sacramento and was home for the weekend, would have been able to deliver the manuals to Jim. The package from Paul did not arrive until Monday noon. So, last night my wife and I put together manuals, and they are being shipped to Jim today via Priority mail. Manual problem solved.

Parts kits. I have kitted a total of 700 kits, and Jim says that we have sold almost 700, so I am barely ahead of the game there. I have run out of NE602's but ordered another 1000 yesterday. They will arrive tomorrow, so don't worry about NorCal running out of 38 Special kits, we have plenty now.

Jim has the envelopes already addressed, so that when he gets the kits and the manuals from me, all that he has to do is put a kit and manual in the envelope, and seal it to send it on its way. There will not be any delay here. Jim is very efficient.

The parts kits will be delivered to Jim on Sunday at the NorCal meeting. I will get home late tonight, it will take me a couple of days to put the boards in the parts kits, and it will be faster to hand deliver them to Jim than to send through UPS or the Post Office. The bottom line is that shipping of NorCal 38 Special kits should resume on Monday.

Some have posted to the net that maybe we need a revision of the board. That will not happen. Why? Cost in time and money. A revision of the board would cost us \$500 and I don't feel that it is needed. The trace that you need to cut is necessary for the mod, but gosh, isn't it better to have a trace to cut than to have to haywire a circuit in? Revisions of the board are only done when there is a serious problem with the current version that causes the board to not work, or not working well (such as the lack of ground plane in Rev. A of the 49er board, which was corrected by the Rev. B board). The 38 Special works fine on the current board.

Revision of the manual. That will not happen, although an errata sheet has been added to the second run of 500 manuals. Again, the cost in time is too great. Manuals are very time intensive, and even when they are checked, errors slip through. The 38 Special manual was thoroughly checked by 3 people, multiple errors were found, and yet new errors were introduced when corrections were made. Almost all electronic companies that I know of use errata sheets because of the cost effectiveness reason. NorCal will do the same, even though we are a club, not a company.

Again, please remember that NorCal is not a company. All labor is volunteer. Yet we receive demands and requests that would be normal if we were a for profit company, which we are not. The 38 Special is a club project, but is one that is being done on a grand scale, perhaps destined to be the largest ham radio club project in history. NorCal does kits to encourage its members to build, experiment, learn and most of all have fun with QRP. We believe that we are not in competition with any company, that our activities are actually helping the QRP companies. How many of you who have never built anything before because of lack of confidence will gain that confidence from building a \$25 kit and not be afraid to buy a \$100 kit from one of the QRP companies? It is one thing to risk \$100 on something that you have never done, quite another to only risk \$25. This is why we are not competing but helping the QRP companies.

Quality is number one with NorCal. Our kits are done with quality in mind. We believe in a quality board, quality parts, and a quality manual. There have been QRP companies in the past that did not choose to follow the quality route, they are no longer in business. But the ones currently doing business, OHR, S&S, Emtech, TenTec, MXM, Kanga, Wilderness, LGD, and Small Wonder Labs, all believe in quality, and that is why they are still in business. All of these companies also stand behind their kits 100%. If they leave out a part, there are no questions asked. Just notify them and they ship you the part, every time. That type of service has not always

been the case with QRP kit companies, but it is now. There was a posting on QRP-L about NorCal causing QRP companies to go out of business. I know all of the people running the above businesses personally. None of them has ever complained to me, in fact very one of them has told me that NorCal is helping their business, NOT hurting it.

The bottom line here is thanks for the support, the 38 Special is doing fine, plenty are available, and NorCal will continue to do club projects in the future because it is fun, our members like it, and that is good enough for Jim and Doug.

72, Doug, KI6DS

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: gsurrency@juno.com
Subject: [10151] 38s hash cure? LONG
Message-ID: <19970127.214943.3294.0.gsurrency@juno.com>

Gang,

I have been following the posts about the spurious output from the 38s some of you are experiencing. Although I am still waiting for my own kit from the second group shipment, I have some ideas to pass along.

I noticed during some experimentation on several of my QRP rigs, that a small ferrite bead can work wonders in reducing spurious radiation.

I was seeing a lot of "whiskers" on the monitor scope during tune-ups on my TAC-1 rig. Although I try to tune the tuner on receiver noise before putting the "juice" onto the antenna, sometimes I am off enough on the settings that the load is still pretty reactive. (I need to get a noise bridge.)

As a result, the TAC-1 here on 80m was putting out some pretty ugly stuff for a couple of seconds before I tweaked the tuner controls to the best setting. Until I get a better antenna for 80m, I have to be real careful to not blow the final PA during these adjustments. I have the settings recorded now, so it's not too hard to come close to the optimum point prior to actually transmitting.

I found that by placing a short ferrite bead on the base lead of the MRF-476, most of the hash on the monitor scope was quelled during the tuner adjustments. I also tried a full size ferrite bead, and it helped just a little more, although the mounting of the transistor precludes the longer

bead since the leads must be formed at right angles to enter the PCB pads.

Please note that the addition of this bead did not reduce power output, as one might expect. In fact, the power output actually improved a little! More than you might expect too, with an approximate increase of maybe 200-250 mw, or an easily observable increase on the WM-1 QRP wattmeter.

I repeated this experiment on several MRF-476s, (ones with gold leads, I might add) and an NTE235 transistor. They all showed a marked improvement in clean power output, and a much reduced tendency to break into VHF oscillations under a reactive antenna load.

So I settled on the short ferrite bead, since there is just enough room between the right angle formed lead going down to the PCB pads, and the straight portion of the lead looking back at the transistor package. As you know, there is a little protrusion on the leads near the epoxy where the lead becomes too wide for the small hole of the bead to slide over.

A device that is vertically mounted, as probably most of your 38s IRF510s are, would allow the longer bead if it was an improvement over the short bead. It may not be as necessary at 30m compared to the 80m band, but it may certainly be worth a try for those of you still experiencing a degree of "hash". As you know, AC beta increases inversely with frequency. Therefore, at lower frequencies, there is much more gain and tendency for RF transistors to become unstable, leading to various forms of "band-aids" as they are known in some of the technical books.

I am not sure what mechanism is responsible for the improvements from the additional of the ferrite beads, so if anyone has a scientific explanation, please post it. I suspect the "choke" effect lowers the inductance of the transistor lead, reducing the tendency toward VHF oscillations. This fix may be very useful in cleaning up the square wave input from the driver IC in the 38s.

How it improves the power output, however, I can only speculate. Perhaps it absorbs some of the distorted class C driver input, and smooths that waveform into a cleaner sine wave in the PA tank or filter network. Maybe there is a little unseen parasitic oscillation there all the time, robbing power from the intended frequency and not seen in the output due to the output filter network. Have you ever looked at the input to a class C amplifier? Yuk!

Whatever is going here, it is certainly worth looking at, since it does tame the PA quite a bit and produces a cleaner output signal.

BTW, just for fun I placed the bead on the collector and emitter briefly

just to see what the effect would be on those pins. In both cases, power output was reduced - not improved. So as you would expect, the base pin is definitely the place to put your bead! Or in the case of the MOSFET in the 38s, the gate pin would be the one to "bead".

If any of you get to try this, please post your findings, as it will be some time until I get to see if the 38s I get needs such "bandaging".

In summary, more power - less hash; from a simple little piece of ferrite.

72/73,

Gary
AB7MY
Chandler, AZ QRP-L #571

(If you ask me where I get MRF-476s with gold leads, I ain't tellin'. ;-)

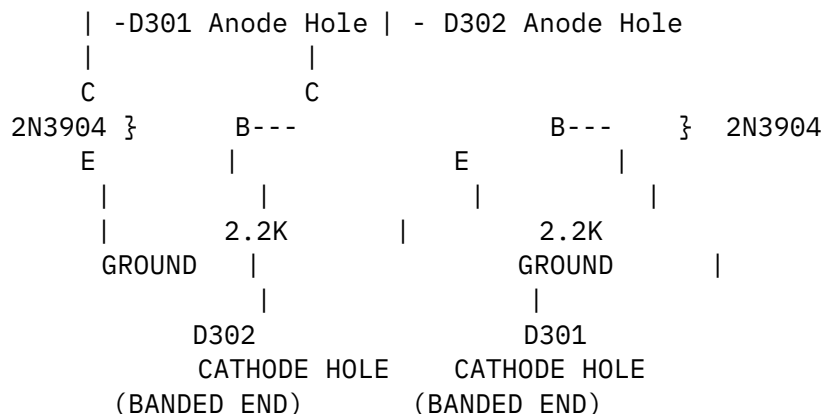
From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: jerryh@webzone.net (Jerry Henshaw)
Subject: [10182] 38S RIT Mod /Chirp Remover (Long)
Message-ID: <01BC0CF0.2CF884A0@pm1.ppp30.webzone.net>

Hi Gang,

Several of you have asked for a schematic of the RIT mod I made to my low power version of the 38S. Here are the symptoms that this mod corrected in MY UNIT (your milage may vary) such are the vagrancies of electronics. I was experiencing considerable chirp at 300mw level into a 50 ohm dummy load. Also, I noticed when you turned the RIT circuit on, it would shift the transmit frequency by 1.5 khz --- not neat feature!!

I removed diodes D301 and D301 in the RIT circuit. and replaced them with two 2N3904 transistor switches. The culprit (in my opinion --- subject to the scrutiny of better minds) is the -R line does not go all the way to 0 volts --- mine drops to 50milivolts. The -T line however goes all the way down to 0 volts with some RF hash riding on it. The 50 milivolt differential will cause the RIT to tune about 1 - 2 khz when switched on.... causing the shift in transmit frequency. With the RIT turned off, the -R and -T lines are "wire ORed" together and the chirp is caused by the small difference in the ground reference point seen by the VX0 circuit. Ori suggests using matched diodes for D301 and

Anyway here is the circuit



This mod also works in the 5 watt version of the 38S.

73 's

ARCI 9165, QRP-L 847, NORCAL 1999
49er, ARK 20, Wilderness Sierra, (Soon 38 Special)

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>

Subject: [10198] 49er
Message-ID: <631EAE59B0@iunhaw1.iun.indiana.edu>

Got my new CQ magazine yesterday. If you have not seen it, there is an article by Dave Ingram, K4TWJ, called "QRP--Red Hot and Cookin'". The problem is that the whole article is on the 49er, where to get one and how to order plus how to get it together and use the Altoids tin. I thought the 49er was out!?!?!?

I guess Jim will just have to send the folks the 38 Special if they order

72 de WB9NLZ

Timothy A. Stabler, Ph.D.
Department of Biology
Indiana University Northwest
Gary, IN 46408

(219)980-6718
FAX: (219)980-7125

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [10215] 49er
Message-ID: <6513CA226A@iunhaw1.iun.indiana.edu>

Just really read the article by K4TWJ. The focus is the 49er but there is a lot of info on homebrewing as well. If you have seen the article, you know this. But my point still is that he is talking about the 49er and folks that are not on this net may want one.

Actually, now that I have read the article, maybe I will force myself to find time to finish mine. And then I can start my new 38 Special.

72 de WB9NLZ

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From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Jim and Nancy Larsen <larsennc@alaska.net>
Subject: [10156] AL7FS - FSFD - QTH address
Message-ID: <32ED8D51.21B0@alaska.net>

Laura is on-the-ball. I forgot to be helpful...thanks, Laura.

QSL Info:

Jim Larsen - AL7FS
3445 Spinnaker Drive
Anchorage, AK 99516-3424

73,
Jim
AL7FS

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Bruce Hopkins <bhopkins@polarnet.com>
Subject: [10150] Alaska QRP Club Newsletter
Message-ID: <l03010d00af13356891d2@[204.119.15.198]>

Hi Gang...

The first quarterly edition of the "Alaska QRP Club" newsletter, "The Tundra Telegraph", is now available for downloading at the AK/QRP website...

Point your browsers at the following URL and follow the signs...

<http://www2.polarnet.com/~akqrp>

If you do not have Web Browser (HTML / NetScape / MS Explorer) capability let me know and I will send you an ASCII text version...But then you will miss all the fun of our new technology...

For those folks reading this with links to the AK/QRP web pages, please note the new URL above and make the necessary link changes... The "Alaska QRP Club" now has its own Web Site URL as well as its own mailbox...

72 - Bruce - KL7JAF - AK/QRP #001

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: tedk4mkx@nmaa.org (Edward Beach)
Subject: [10190] Alinco DX70T as QRP
Message-ID: <32EE3E43.30C9@nmaa.org>

I have been using an Alinco DX70 for almost a year now, and will pass along my comments and thoughts. To begin, I like the rig very much. It has wide and narrow filters as standard for all modes except am and fm. Neat. The noise blanker does NOT work, although the filters do.

I use the rig mostly as base-station and occasionally mobile. It can be used QRP, but is not terribly conservative of batteries. It was not designed to be battery powered. As supplied, the rig can run at 100 watts high, 10 watts low for cw and ssb. An internal switch can change these to 50 watts high and 5 watts low, although this is NOT how I operate QRP. The internal switch is inconvenient to access, so I do not use it. Instead, I have a battery/switch/pot box fastened to the ALC jack of the rig to control power output.

The Alinco manual says the ALC input should be in the range of 0 to -3.0 volts. This does not work on my rig at all. It takes -4.5 volts to just begin to reduce the power. Consequently, I use a 9-volt battery to control the ALC. I can get the output power down below 1 watt this way. On my rig, if I adjust the ALC to the point that the power-out indicator on the display goes out, the power out is 5-watts. This I have measured on all bands into a dummy load, so know it to be a decent QRP indicator.

As far as power consumption goes, I measure between 560 and 630 milliamps on RX at 13.6-volts, depending on whether the display lights are on or off. Regardless of the power setting, pressing the PTT switch causes a TX current of about 1.3 amps. This, before speaking (SSB) or keying (cw). Not too great for battery use! What this initial surge is, of course, is the linear bias being applied to two 100-watt output transistors. They don't know you're operating QRP! Key-down at 5-watts output draws about 3-amps. The nice thing is the rig will operate with an input voltage of around 11-volts.

As far as cw breakin is concerned, you have lots of choices: automatic (which I use), 7 degrees of semi-automatic (which I also use), and full break in. For those who don't like hearing the relay chatter, you can hold the ptt button as you key the rig and let go when you want to listen. This is kind of a throwback to the old

days of separate rigs and a T/R switch, but heck, it works!

The i-f shift and cw-sideband selection do a lot for cw operation. Switching sidebands on cw can really knock out an interfering signal in a hurry. I also use this feature when tuning, using cwu as I tune UP a band and cwl as I tune DOWN. This way all signals go from high to zero, regardless of the tuning direction.

For an all-band, compact rig that can operate QRO or QRP, the Alinco is a hard rig to beat for my money.

72,73 de

Ted Beach - K4MKX

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: SNickrand@aol.com
Subject: [10165] Another TiCK Mystery (in 38S)
Message-ID: <970128012542_174601199@emout01.mail.aol.com>

Having completed the stock version of the 38S (and verifying both RX & TX operation), I proceeded to the "simple" Tick mod. I did not do the "mandatory mod" but followed the book removing R15,R16,C31,D8, replaced R17 with a 440 ohm, adding VR201, TR201,R202 and C202 ---and cutting the PCB track. I found the sidetone from the Tick loud enough but also found the dits and dahs reversed as others have reported. Most importantly I found that it did not key the circuit--i.e. no rf. Removing the tick chip and shorting out R14 (as the use a straight key would) I did generate RF.

Putting the tick back into the circuit, I measured the T- voltage at 7.75v on receive (which is ok) and 4-5 volt on transmit (which is not ok, is should be zero). Or should it be zero? Since the automatic keyer makes it impossible to "hold the key down", perhaps my DMM is only reading the average voltage. Regardless, there is still no RF being generated. Although my first thought is to replace the 2N2222 (TR201), it will have to wait till Tuesday evening. Thought I'd run this past the list to see if anyone had any better ideas. One other thing--since making the Tick mod, I have found an erratic oscillation. At random times, sometimes in receive and sometimes when keying, a sound appears in the headphones somewhat like the sound of the light sabers in star wars (fighting badgers?). By moving a wire or touch the PCB, it goes away. Don't know if the two phenomenae are related. Bill Nickrand KB9KOL

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "KA5T Larry Wise" <lewise@inetport.com>

Subject: [10170] Antennas - Temp, field, etc
Message-ID: <199701280707.BAA22111@admin.inetport.com>

I haven't done any backpacking, but I do operate from a small (16.5ft) travel trailer on vacations and weekend excursions...

My 'get on the air quickly/staying for only a night' antenna is a Hustler vertical on a big mag mount (my roof is galvanized steel) with KW elements for 80 40 30 20 17 15 12 10 , a bundle of whips from 4 IN to 4 FT, some nylon cord guys (to preclude things going bump in the night) and of course an MFJ-259 (whatever did we do before this prize ???!! (spent a lot of time wearing out SWR meter switches!))

My 'preferred/staying a few days' antenna is a plain old coax fed dipole made from an egg insulator, number 18 plastic covered wire, and some RG8X coax (or what have you).

Most of my work on these trips is on 80 and 40 and the MARS frequencies near (and not so near) the high ends of these bands.

Those of you who have seen the inside of any RV type Park can chuckle at the thought of whipping out the 80 dipole and getting it into the air. For this type of activity I carry a lot of junk \\\\\\\ valuable equipment in a large plastic 'Antenna Resource Case' in the back of the pickup. Among the other stuff in there is many feet of nylon cord, slingshot, fishing sinkers, black electric fence insulators, several rolls of Radio Shack antenna wire (the 65 FT stranded number 14), misc pieces of number 18 plastic covered wire, made up 80 M dipoles, misc pieces of RG8X coax, solder gun, solder, 100 FT tape etc etc.. (And did I mention tape....Lots of tape.)

On my last trip, At a Best store, I came across this 16 FT flagpole in 4 FT sections, which was listed as 85 dollars new, marked down to 55. He said to himself, Hmmm, Self, this flag pole is longer than the broom and not much heavier.... Well the antenna support\\\\\\\\\\ flag pole was purchased after a little hamfest type haggling for 28.50; complete with the flag (3x5 FT) lanyard, pulleys, fittings, and a nice gold ball on the top!!! Right then and there I decided to become a patriot and display the flag at every opportunity!! :-)
((So now the Antenna Resource Case has some sand anchors, some stronger nylon/dacron cord and adjustable utility straps to "firmly anchor the trailer awning", which by the way just

happens to hold up the antenna center support \\\\\\\ flagpole :-)

But I get ahead of myself and digresssss....

My basic premise on portable/temporary antennas is that a severely compromised dipole is better for local work than a severely compromised vertical.

Now.... I don't want to start a raging vertical vs horizontal thread here because I know that verticals work and work well in some installations and for some applications.... And antennas can be compromised in all sorts of different ways....

(I do all of my work here with a Butternut HF6V ground mounted in the backyard with about 24 radials ranging in length from 33 to 130 ft and a couple of low dipoles. Don't ask.....)

So let me tell you how I arrived at that premise.

On one of my trips to the north country (MI and MN) I was trying to check into some of the Navy Marine Corps Mars Region 4 nets. Frequencies were just off the high end of 80 and 40 with a couple up around 4800 KHZ. I had been using the Hustler vertical on all of these frequencies with appropriately tuned whip sections.

I could get into the 40 M nets a little but on 80 M and 4800 I would get the old "I thought I heard someone in there" but no copy. (And I must admit this was QRO at 100 w out).

Well I decided that at the next RV park I was "gunna get up a dipole if it killed me"!! We found a park with wide open spaces (quite by luck) and got a spot out on the edge of the park near the open spaces. (This was one of the "state park" type of RV area, not one of those "Walmart parking lot" type, so we had a little more room than normal...) But wouldn't you know... not a tree around that I could get a space under!!

Hmmmm.. The nearest thing to an antenna pole that we had was the kitchen broom, and you know long these are, maybe 5 feet stretching it?? Well some pole is better than no pole I figured so I got out the 80 dipole (the one made out of an egg insulator, number 18 plastic covered wire, and RG8X) and taped the coax at the insulator to the end of the broom, then taped the broom to the awning support, mostly sticking straight up. So how high can this be at max, 8, maybe 10 feet??? Now for the end supports. (Did I mention the four cement blocks in the back of the pickup for who knows what??) Put about 20 to 30 feet of cord on each end of the antenna (on the black electric fence insulators) legs and rap them each around a cement block and stretch them out as far as I dare to get some of the sag out...

Now can you picture this ?? An 80 M dipole with an average height of maybe 4 or 5 FT propped up in the middle on a broom stick taped to the awning support??? At least it was full length, which you couldn't say for the verticals.

Well, got it up, might as well try it... Of course you know the story, checked into the net and they heard me, not real strong, but Q5.

So to have made a short story long... I always throw together a coax fed dipole for a quick/portable antenna. (Yeah, single band but...)

Sample of 1, biased, YMMV

Now when we visited our son in MN (in the summer of course) and had the trailer parked next to two 60 FT silos.....

But that's another antenna fable about the openwire fed 120 FT dipole from the Antenna Resource Case...

(I know.... I know... you'd have to be built like Paul Bunyon to backpack the Antenna Resource Case.... :-))

Larry

KA5T - Larry Wise - Georgetown, Texas - lewise@inetport.com QRP-L 89
ex: KN80SG K80SG(1959-1967 MI) W6HED(1967-1968 Ca) W4ZTB(1968-1978 Fl)

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: tahrens1@juno.com
Subject: [10135] Anybody out there?
Message-ID: <19970127.210444.4887.2.tahrens1@juno.com>

Haven't seen any mail in about 1.5 hours..
maybe the band is dead!

cu

Tim W5FN

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: TMOLL@aol.com
Subject: [10146] Autech Research QF-1 Filter
Message-ID: <970127230428_1245666313@emout09.mail.aol.com>

Hi Again,
I have an Autech Research QF-1 audio filter that used to be somewhat useful, although I'm sure it pales in comparison to modern DSP filters. Does anyone know if this company is still around? I turned this thing on after years of non-use and it just hums very loudly. Would be nice to repair it for use with some boat anchors.
Tom, N0BS

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Floyd Smithberg <floydng7x@worldnet.att.net>
Subject: [10208] AZ ScQRPion Meeting
Message-ID: <19970128170316.AAA7863@LOCALNAME>

The Feb 97 meeting will be this Sat, Feb 1, 10:30am at:
LUBYs 1933 W.Dunlap (next to HRO :-)
Phoenix, AZ
Everybody welcome....bringa buddy and yak, eat and more yak.

Show & Tell:
N07K, W5VBO.....New TenTec QRP rigs on the air!
AB7TT.....FYBO prizes & info, pics of new Jr op???
KK7BD.....Fox, HB projects
KI7MN.....WWW Home Page news
W9UQB.....Solomon Soldering Station
AB70A.....Propagation report for FYBO
N07X.....QRM Slicer, HB tuneable SCAF
KJ7YN.....QSLs and Panel Decals

72, Floyd N07X

Floyd N07X Phoenix ScQRPion
ARCI G-QRP NORCAL ARRL

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: majewski@erim.org (Ron Majewski)
Subject: [10186] Change: W8RU FOX Schedule
Message-ID: <9701281423.AA01619@spsd630a.erim.org>

Good morning to all,

My last posting had the wrong date, but now I have a story to tell. :)

The calendar from which I was working does not have the date 20 January on it! Yes, it just blithly moves from 19 to 21 without missing a beat, and I don't think any pope decided our calendar needs another adjustment. :)

It was all pretty funny until I realized that my logbook is now horsed up.

In any event, FOX night will be from 0100-0300utc on 31 January.
This is 8pm - 10pm EST on Thursday, 30 January.

My apologies for the mix-up that comes on top of my forgetfulness.

I hope to hear many of you soon.

Retreating back into the brambles to recover,

Ron (W8RU).

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ukii@megsinet.net (ukii)
Subject: [10154] Choke Changing made easy?
Message-ID: <01BC0CA7.10BC9F40@randolph2er1-8.megsinet.net>

Hello Gang...

I was just at the Norcal website looking around. If your like me you have been saving all these 38s mod messages somewhere. Well Norcal has them all up there,like they did the 49er...

QUESTION.. N7IVR,Dan Winkler sent a message to the group a while back about a simple way to add some inductance to a choke. It involved winding the choke with extra wire... Anyway,if thise indeed was a good way,which sounded good to me, can we get someone to put his "mod" up there for the masses?

Thanks to everyone for this neat adventure. I havent started on mine yet, right now it is in the envelope and considered mint. When I get done with it,it may become a FS: NON-WORKING 38s FOR PARTS message...

Best 73 de john

STILL have that Sixer of Jolt Cola for my first 49er qso!
And its getting close to the shelf life date!

*** If its doesnt have a sidetone....

it must be a CB ***

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Bradley S. Mitchell" <bmitchel@kodak.com>
Subject: [10232] clicks in sidetone on 38S
Message-ID: <32EF3B1C.71D2@kodak.com>

Well, I need to sit down with a scope probe, and
a coke, and see what's going on here.

Is everybody experiencing a bit of thumping on the sidetone
or is just me? Anyway, I notice now that I have the "Mandatory
Mod" in, that I can hear the telemetry tones great from the TiCK.

Only thing is , the rig thumps at the end of the dits and
dahs. I note that the telemetry tones sound great , but the
sidetone (when transmitting) has the thump.. so I guess it's
most likely something to do with the switch over from Tx to Rx.
Maybe an appropriately placed cap would delay the switchover a bit
and get rid of the thump. Or maybe there is a way to get rid of it
altogether without sacraficing a millisecond of QSK?

Any ideas lurking out there?

73 Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: PGSPersEng@aol.com
Subject: [10159] Correction to FSFD, AA1MI in NH
Message-ID: <970128010046_1578977462@emout11.mail.aol.com>

A small correction to my operating hours for Wed, Jan 29:

>From 1800-2100Z on 14.062, I'll be checking the bands at the top of the hour.
That's during my office time, and I can slip away for a few minutes, but the
operating won't be continuous.

All operating as listed from 2100 - 2130Z as well as 0200-0600Z will be
continuous.

Hope to work lots of you! And because I was one of the few stations on the
list not to work Alaska last weekend, I'd be *really* happy if an AK station
dropped by (hint, hint).

72, BCNU
Paul, AA1MI

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: TMOLL@aol.com
Subject: [10140] Dentron Radio tuner
Message-ID: <970127230006_1859899905@emout17.mail.aol.com>

Hi,
I have an old Dentron Radio 160-10AT Transmatch tuner that has always worked exceptionally well for QRO work. Is a tuner like this suitable for qrp use with twin lead or open wire line, or is there too much loss in the balun? Does this tuner have a good reputation? I never hear anyone mention them when the conversation turns to tuners. Any opinions welcome.
Tom, N0BS

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: PDouglas12@aol.com
Subject: [10199] error in MXM review
Message-ID: <970128105745_-1912329992@emout08.mail.aol.com>

Hi Gang,

It was pointed out to me that I was in error when I wrote (Oct QQ "Round Robin Review '96) that the MXM Transceiver IF shift control was a BFO and that it could put the rig on the wrong sideband. The IF shift is not a BFO and it can't cause wrong side errors, and it is an effective system for narrowing the receive passband. I apologize for this error.

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [10246] Estate,Some items spoken for
Message-ID: <n1357649424.42626@msmailgw1.arlut.utexas.edu>

Thank you all, wow!

The Astron 12 amp is spoken for;

as is the Terman Book.

Two of the other books I could not think of, were queried; I remembered them then, and they are spoken for! (QRP Notebook and QRP Classics.) Will list the rest when I can.

As always, if any deals do not close I will retain the other emails and let you know of any change in status.

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: jerryh@webzone.net (Jerry Henshaw)
Subject: [10192] First 38S QSO !!!!!!!
Message-ID: <01BC0CFA.362234E0@pm1.ppp30.webzone.net>

Hi Gang,

Well after all my tinkering and testing and probing and hair pulling (I have very little hair left to begin with).... I FINALLY got on the air and made a contact!!!! With 5 Watts no less Thanks to Ken NE0C in Ohio for putting up with my straight key fist using the dash paddle on my bencher paddle.

This is more fun that a body has a right to!!!
Thanks to Ori, Jim, Doug, Paul,..... the list goes on for such a fun project. I LOVE these toy radios!!!

73's

Jerry Henshaw
KR5L / QRP
jerryh@webzone.net

ARCI 9165, QRP-L 847, NORCAL 1999
49er, ARK 20, Wilderness Sierra, (Soon 38 Special)

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [10120] FOX Standings
Message-ID: <199701280013.AAA13314@chuck.dallas.sgi.com>

Foxhunt Current Standings January 27, 1997

The Big Game!!!! CA-16 TX-17

Fox Scores

CALL	CONTACTS	STATE	TOTAL POINTS
------	----------	-------	--------------

K2NF	59+47	FL	106
W5FN	50+56	TX	106
NQ7K	37+49	AZ	86
W0CH	49+24	MO	73
W03B	29+36	MD	65
KS4L	38+21	AL	59
N8VAR	23+18	OH	41
KF2PH	12+20	NY	32

W5TFB	77	TX
KU7Y	57	NV
N6GA	56	CA
W1HUE	55	ID
AE4IC	53	NC
WB8RUQ	47	MI
N9DD	40	IN
AB5OU	37	NM
N2VPK	36	NY
N6WG	36	CA
AA1IK	30	NH
N2TNN	29	NJ
KA5DVS	25	NJ
AE9K	23	WI
WB5QMP	22	ID
WA1GUV	21	VT
W8KC	11	MI

Total Qs = 1,183+

Novice and Tech+ Scores

KB0ROL	12+ 9+11+ 18+ 4+ 6+ 4	CO	64
KB9JLO	12+ 9+19+ 8+ 5	IL	53
WA7SSA	7+ 5+ 3+ 14+13+10	ID	52
WD4MSM	5+ 5+ 9+ 3+ 3+ 5+ 4	IN	34
KB9LGJ	11+ 3+ 5	AZ	19

Total Novice/Tech+ Qs = 213

Note: X.5 means X regular foxes and .5 means one Novice(5 pts)
so that score is X+5. Only one Novice per non-Novice stn.
So 3.5 means 3 regular and 1 novice for total of 4 contacts,
but 8 points total. Only one Novice contact allowed for
for the five points for the season for stations other than
Novice/T+.

Hunters Scores (and it's a close race)

Leader of the pack is: (27.5) NQ7X Floyd in AZ

AA0XI(20.5) W00Q(13) W0CH(6.5) WB0CLD(5) AB0CD(5.5) KI0G(4.5) AA0XZ
KQ0I WA0FGV NI0A(12.5) K0EVZ(5.5) WA0RPI(2) KD0SU(4.5) KB0VCC(3)
AA70A N0TFI KB0PJ N0UR(2) AB0DC K6QD W0HEP(1.5) KB0YMI(0.5)
WA1GUV W0SS KB0YBX(0.5) NG0M(0.5) N0UVR(0.5) K0FRP(1.5) WB0CGH

K1MG(17.5) W1HUE(15.5) AK1P(8) WA1QVM(5.5) N1RXT(3.5) KA1AXY(5.5)
N1QQV(7.5) KC1GS W1UI(0.5) AA1MY(6.5) KC1FB(5.5) K10J(8.5) WA1UPB
W1EAT N1UMA NT1U WA1VPB K1CL AA1PD WY1W AD1E

AA2WJ(13) AA2PF(6) N2G0(4) WZ2T(2) N2VPK(7.5) K2VNM(6) N2YRJ(3) N2TNN(5)
K2NF KG2DP KF2PH(2.5) N2T0 W2DP(2) K2VC0(5) W2NRA N2CX W2UX AA2ZW
N2VQK

K3ETS(2.5) N3SLR N3KFL W3PNL(3.5) KA3WMJ(3.5) W03B(6.5) KT3A NR3E(4)
W3WZ(3.5) KV3NX AA3MD NF3I(1) KA3WMJ(2) K3QI0(2) NR3Z W3DW(1.5)
N3G0 AA3KR

KE4YH(25.5) AE4IC(12.5) WB4ZKA(4) W4STX(2) KS4L(2) KE4KDT(1.5) AD4ZE(4)
WJ4P(4) K4CGY(2) KK4KF(7.5) N4S0(9) KI4JA NR4N(1.5) N4EUK(0.5)
KS4HQ(0.5) K4PQC(2) KS4V KQ4AL N4IM(3) KC40(5) WX4P(3) AE4MX W4M0
AB4RR KD40BQ(2) AE4VQ N4JS(2) K4WZ(2.5) KD4SJM(0.5) K04A KE4WQH(2)
N4BP KU4AF W4HFU N4PA

W5FN(25.5) KK5R0(23.5) N5ET(19.5) AB5UA(21.5) W5TFB(19.5) AB50U(17.5)
K5W0(8) K5UP(13.5) K5ZTY(13.5) KK5MC/5 WA5WHN(2.5) AC5II(9.5)
N5JKY(8) K5F0(7.5) WB5QYT(4) W5VB0(3) KK5GJ(1.5) K5RV(12)
W5HNS(8.5) WA5CVM AC5CI KA5DVS(2) NA5N(4) KA5T(12.5) WD5GKH
K50N(9.5) KB5YVT N5LU(12) KE5TF(12) N5AL0(2) KE5FT KJ5SP(2)
K5JHP(5) WB5J K5M0 KC5R0(4.5) W5CTZ KJ5VW(5) W5XE(5.5) KK5NA K5JP
K5ID(2.5) NA5K AB5ST K5PSH W5SST WA5YFY K5LE(3) K05W(1)
W5QJM KC5VYE(0.5) K50NF WB5GWB

W6BAB(19.5) KK6MC(10.5) N6WG(13.5) KQ6AG(4) KI6DS(3) WA6NAE(10.5)
W6ABX K06KA(11.5) KI6SN(2) KD6ZMJ(3.5) WA6MOK(0.5) K6VNX(14.5)

WA6HHQ(7) AA6R(4.5) WA6OWR W6EMT(5) N6GA AC6KW WA6GER(2.5)
W6EMD(5.5) WB6LMA(0.5) KI60Y(5.5) N6XU(26.5) N6KR(2.5) W6ZH(17)
W6SI WA6EIW W6KAK K6JI(5.5) N6MM(11) W6SU(14)
W6JHB(3.5) WD6FDD(2) W6SIY(0.5) W6ZOH N6VZ(2.5) N6XI KD6YIX

NQ7X(27.5) KK7BD(21.5) KU7Y(14.5) AB7TT(13.5) N7GS(13.5) NQ7K(13.5)
AB7ST(11.5) KI7MN(7) N7KT(10.5) WW7Y(4) N7MFB(2) WB7DUO W7JDZ(7.5)
AB7HI(2.5) KJ7NS(3) AB7OA W7SNV(2) N7CQR AB7MY(2) N7MFB KJ7LB(0.5)
W7LR KJ7UN(1.5) AL7FS(1) KE7IT(2) N7CTJ(3.5) AA7QU(3) W7GVN(6.5)
W7FXH(0.5) W7KXB(3.5) WJ7H AB7TK(8.5) KJ7ZU(0.5) KC7SYL(0.5)
WA7LNU K7TP W7GUN(0.5) KI7NS(1) KG7PV KE7X KA7YOU W7GH W7LYO
KC7PGO(0.5)

W8DN(11.5) WA8CDU(9.5) W8KC WD8LDY(2) W8EO N8VAR(4.5) N8CQA AC8W(6)
KF8EE(3) WD8KQY W8LRM WA8CDV K8BVJ(1) K8IDN K8DD KB8GDF(0.5)

KB9IUA(11) NN9K(11) W9DZ(9) N9DD(10.5) WA9PWP(9.5) NY9B(3) AE9K(3)
W9UQB(3) N9RYI WA9YLB(2) WB9LEF N9HH(5.5) N9SSG WB9LKC(2) W9JIF
W9ZSJ WD9CTB

VE3JC(8.5) VE7SL(7.5) VE7CQK(5.5) VE3SP(4) 8P9BM(1) VE5RC

Novice Stations working foxes - these count in separate class of prizes.
Let me know if you are N/T+ and have worked a fox and I put you in the
above grouping by mistake.

WA7SSA(6) KB0ROL(2) N0PMY(2) KB9LGJ(1) KB0SJY(1)

SIG

Chuck Adams K5FO adams@sgi.com

http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Roger Hightower <rhight@primenet.com>
Subject: [10123] FOX tonight?
Message-ID: <32ED51D5.601F@primenet.com>

Man, I've gotten so wrapped up in the NC38S I've lost track of the Fox.
Is there one tonight? Did I miss a post? Need to get the numbers up.

Question: I picked up a Tektronix 585A scope with cart and manual from
an estate. Humongous thing, but it works. Anyone have experience with
this thing? It's my first scope, and I'm going to use it for everything
I can think of, including tinkering with the 38 spl. Comments, pse.

--

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC-40A, OHR Explorer 20, 30M, OHR400, HW-8, HW-9 and more
to come.
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Nick Franco <kf2ph@bnl.gov>
Subject: [10240] Fox Tonight?
Message-ID: <32EE72BB.4A8@bnl.gov>

I haven't seen any Fox posting from Bob - AE4IC for tonight and yet I
have him on my list for tonight. So Fox or no Fox? that is my
question. I'll look on the list later before I waste time listening for
a ghost again :-(

nick-kf2ph

--

Nicholas J. Franco <>> BROOKHAVEN NATIONAL LABORATORY
Sr. Systems Specialist RHIC Project Building 1005
Tel: (516) 344-5467 UPTON, NY 11973-5000
Fax: (516) 344-3674 Ham Call: KF2PH
Email: nickf@bnl.gov <http://www.rhichome.bnl.gov/People/franco>

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: tahrens1@juno.com
Subject: [10132] FOX tonite?
Message-ID: <19970127.194745.4887.1.tahrens1@juno.com>

Anybody hear Ron on? Maybe I missed a
late post on his hours.

Tnx,

Tim W5FN

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [10237] Fox: 1/29 Tuesday night!
Message-ID: <199701282205.RAA15636@mh004.infi.net>

Fox hunters:

I'll be the Fox January 29 at 0100-0300 UTC. For the Chronographically Challenged, that means Tuesday evening, January 28 at 8:00-10:00 PM EST.

My plan is to operate at about 7.036. Based on the Fox hunting I've been doing, I'll have to be that low to avoid the QRM/QRN. If that Freq is tied up, I'll try to move up slightly. The early time is a distinct disadvantage for you left coasters. Sorry 'bout that. It's an advantage for the east coast, and I expect to hear from all of you!

Bob Kellogg, AE4IC, Greensboro, NC
Probably, but not necessarily. - Benny Hill

Bob Kellogg, AE4IC, Greensboro, NC
Probably, but not necessarily. - Benny Hill

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: PDouglas12@aol.com
Subject: [10219] FS Norcal Sierra, St. L Tuner
Message-ID: <970128134019_-2045875870@emout10.mail.aol.com>

Gang,

I have to have a scope. Can't go on without one! So I have decided to sell one of my two Sierras. Here is the info:

*Norcal Sierra, in original Norcal unpainted aluminum case with the neat side snaps (I am willing to cover it with black pebble vinyl if required by buyer) with full color computer generated front panel (spare printouts of the panel will be furnished) --

* Two band modules (80m and 40m) with silver mica output filter caps installed, not otherwise modded. Other band modules still available from Wilderness Radio.

* VBT option (variable bandwidth tuning) installed and working well. Control on front panel.

* Miniature Analog S/Meter / Relative Power meter installed on front panel.

* KC1 Multifunction Frequency counter with audio/CW output and mini memory keyer installed with transmit monitor sidetone preserved per custom mod (documented.)

* Copy of original manual with copies of mods, almost all QRP-L postings relating to improvements/mods by the "authorities"

Price \$320 American, shipped USPS overnight

Item two:

One St. Louis Tuner built and working well. I used slightly heavy wire on the main toroid, so I missed one of 12 taps because I couldn't fit enough turns on the core, but the tuner doesn't seem to care. You won't notice either, but well, that is what is called truth in advertising. Anyway, it works very well, has a custom color computer generated front panel, and looks very good. And the dial markings on the panel make this example easier to use. You can record the settings and come back to them when you change bands. Price: \$85 shipped priority mail.

Preston Douglas WJ2V

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [10203] FS: Alinco DX-70T
Message-ID: <19970128.113319.4647.0.wb2vuo@juno.com>

I have to pare the station down, and I am selling my Alinco DX-70T.

Presently, I have is configured for 5W/50W (internal switch), have made the factory RX mods on the controller (now receives from 35 KHz to 35 MHz and 45 MHz to 60 MHz) and did the "MARS Mod" so I could run transverters above and below the 20 and 10 Meter bands.

Rig is in excellent shape, and has been run for Field Day (QRP/Battery, of course) with the KB2UFY/BARK operation.

Asking \$700, and I am looking for an Argo 556, and would consider partial trade(s) towards that rig.

This is a size reduction due to my travels. Having seen an Argo in the 'flesh', it is the rig I can take with me, both size and weight-wise.

Drop me a line here (wb2vuo@juno.com) and I will get back to you.

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, Tech Specialist (ARRL/WNY),
ARRL Life Member, VP/BARK, Beacon Chaircritter, Rochester VHF Group
Trustee, KB2YTW/B 10 Mtr QRPP Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"

Packet - wb2vuo@w2im.#wny.ny.usa.noam
Email - wb2vuo@juno.com

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: AlK0FRP@aol.com
Subject: [10139] FS: OHR Classic/keyer
Message-ID: <970127221410_204026716@emout08.mail.aol.com>

For Sale OHR Classic 4-5 w out 40m and 20m duo-Bander.

Many contacts in the little over a year that I've own it.

I fixed the chirp problem and replaced the crystal filters (OHR replaced a bad run of crystals). works very well.

Few scatches on top. Has keyer option installed.
New \$219 plus \$35 for keyer
Want \$190 shipped conus.
will send phone number via E-mail if requested.

Al K0FRP

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: KFGlynn@aol.com
Subject: [10205] FS: Unbuilt St. Louis Tuner
Message-ID: <970128114214_2024786058@emout02.mail.aol.com>

Hi Gang,

I have an unbuilt St. Louis Tuner kit for sale, \$80 plus shipping (UPS or USPS, whichever you prefer).

Unfortunately a gent on the list asked me about it last week, but I do not have the original mail message.

Please e-mail me direct if you're interested.

72 Kevin N2T0

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [10224] FSDS

Message-ID: <Pine.SUN.3.90.970128113608.6945A-100000@vortex.sage.dri.edu>

Hi All,

I am heading home now to start my stint as FSFD.

The Sys Op here will be changing the UNIX OS starting at 1700 local, (0100Z), so no email until that's done. He is thinking 2 to 3 hours to have it back up and running.

So post op posts might be late!

cu soon,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Steve Hurst" <shurst@magiclink.com>
Subject: [10172] FSFD
Message-ID: <199701280749.CAA57965@nss2.CC.Lehigh.EDU>

Has anyone worked every state so far during the FSFD event ?
Inquiring minds wanna know ! :-)
Tnx

73,
STeve
KA7NOC
<http://www.magiclink.com/web/shurst/Page2.html>

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [10206] FSFD (50 States) Update for Jan 28
Message-ID: <199701281640.LAA23039@alaska.magpage.com>

Hello ALL, (QRP activity info at <http://www.dancris.com/~ki7mn>)

The 50 States In 50 Days (FSFD) activity started Jan 01 and runs through

Feb. 20. Below is a the schedule of States for the next few days. We will attempt to provide digested schedules of states/times/bands/freqs. to help reduce message traffic to the reflector. Typically, only 1 message per day.

ALL TIMES UTC

Jan. 28 Tuesday NEVADA KU7Y, Ron 2200-2400 UTC 14.051
0001-0200 WED-UTC 10.118

Jan. 29 Wednesday NEW HAMPSHIRE
AA1IK, Ernie 1300 UTC 7.030-050
1400 " 7.030-050
Ernie will call for 20 1500 " 14.030-050
minutes and stanby unless busy. 1600 " 14.030-050
1800 If > " 21.030-070
Look in upper end of oper. 1900 Band > " 21.030-050
windows and work down. 2000 Is > " 21.330-370
2100 Open> " 21.330-370
Email adr: gregoire@endor.com 2300-2400 " 7.030-050
0000 THUR-UTC 3.530-050
0100 THUR-UTC 3.530-050

AA1MI AA1MI, Paul 1800-2100 UTC 14.062
During the 1800-2100 Paul will be at work and will do quick checks
at the top of the hours. Times below are continuous.
2100-2230 UTC 10.116
0200-0600 THUR-UTC 7.038

IMPORTANT: Paul will check 3.556 for a few minutes/calls at
the top of each hour beginning at 0300. He might get
tied up on 80M for a while so check BOTH bands.

Jan. 30 Thursday NEW JERSEY N2CQ, Ken 1400-1500 UTC 7.040
1500-1600 UTC 10.116
1600-1700 UTC 14.060
Ken will call for the 1st 20 minutes of each hour then stby. if
not busy.

N2TNN, Dean 1700-2000 UTC 21.060
and/or 10.110
2000-2200 UTC 14.055

Jan. 31 Friday Changing/rescheduling in process

Feb. 01 Saturday NEW MEXICO WA5WHN, Jay 1700-1900 UTC 14.054
 2000-2100 UTC 10.116
 NEW MEXICO 2300-2400 UTC 7.038
 Look for Judy/WB5LYJ (Jay's XYL) too. They have 2 QRP
 stations and will also try for 28.447 and 21.060 if
 bands are open in the afternoon.

 NEW YORK NEW YORK WZ2T, Rick 1600-1800 UTC 21.055/21.120
 1800-2000 UTC 14.061
 Look for Rick in both novice 0100-0200 SUN-UTC 7.042/7.121
 and General portions of the bands 0200-0400 SUN-UTC 3.555/3.705

KV2X, TOM TBA...need sked Tom

OTHER WEEKEND ACTIVITIES: Delaware QSO Party, All bands & modes
 K3QIO/KA3LLL on QRP CW in Del.
 NorthWest QRP Club Digital Sprint

 Feb. 02 Sunday NORTH CAROLINA AE4IC, Bob 1800-1900 UTC 7.040+
 1900-2000 UTC 10.116+
 Highest open band-----> 2000-2200 28.060/21.060/14.060+
 2100-2200 UTC 14.060+
 0030-0130 MON-UTC 3.560+
 0130-0230 MON-UTC 1.810+
 Then to check-in to KnightLite Net on 3.710 after 0230

Feb. 03 Monday NORTH DAKOTA KA0LDG, Kent TBA

Feb. 04 Tuesday OHIO KD8IN, Steve TBA...need schedule

NS80, Greg 2300-0100 UTC 7.040 +/-
 0200->WED-UTC until no Q's 7.040 +/-

Other Activity: New England QRP Club 79er SPRINT 3.579 MHz 0200-0300 WED-UTC

Most sign-ups came with a note saying they would go longer if busy.
 Frequencies are +/- QRM & typ. may reach as far as 3-4 KHz from posted freq.
 If am major QRP frequency is listed, like 7.040, it means close by if
 possible. We will attempt to avoid being right on 7.040, 14.060, 10.116, etc.

CALLING CQ: A suggestion. If we call CQ WAS or WAS QRP de K6.... etc,

we give those not on QRP-L an indication of what we're doing. FSFD type calling might be too cryptic for all but ourselves. However 'FS' is fine when busy. Exchange RST, State/Province/Country, and Name. Power level is nice to know.

If you want to sign-up for an upcoming State, e-mail band/freq/time directly to:
congress@magpage.com
Thanks for all the responses/encouragement and suggestions. Lets have a blast!

Jim K3QIO Wilmington, Delaware

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: jdenison@aisp.net (JOEL DENISON)
Subject: [10241] fsfd jan 19, ve calls
Message-ID: <19970128213938533.AAA174@slip8.ts-f-merrill.caps.maine.edu>

Hello to all bodies:

I am happy to say that someone gave me a web site number with a call book including VE. So I went there and got the addresses I needed and will ship out the VE qsl cards tomorrow.

Being from Louisiana, South la. Acadiana, Cajun country. it's kind of exciting being so close to where my section of La. was started. Here in Acadia, Nova Scotia.

Enjoyed working all of you and I am really happy that I was able to get ur addr. qsl cards on the way!

Au revoir, mon Ami.

God Bless
Joel

WA5CVM
Joel Denison
81 High street 40 mtr dipole up 40ft
Farmington, Maine 04938 QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765
jdenison@aisp.net

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Dave Sjolín <sjolin@swbell.net>
Subject: [10136] FSFD Missouri (N0IT)
Message-ID: <32ED6DF5.67A6@swbell.net>

Attached are results of my FSFD operation for Missouri this past Saturday. In total, I made 40 contacts in 23 states plus Ontario. Most of the activity was on 20M and 30M. Made relatively few contacts on 40 or 80 despite a lot of CQing. No contacts made on 15 though the band was open to west coast.

Band	Time	Call	His	Mine	State	Name	PWR
20	1922	AL7FS	559	449	AK	Jim	
	1915	N4BP	579	559	FL	Bob	5w
	1920	AA2NL	559	339	NJ	Rick	5w
	1922	WA1QVM	559	559	MA	Joel	4w
	1923	W1KX	559	559	ME	Bill	5w
	1928	K1CL	559	449	MA	Chuck	4w
	1930	AA1MI	449	449	NH	Paul	5w
	1933	AC5AM	449	559	AL	Bob	4w
	1952	KE4YH	559	559	FL	Stew	5w
	2000	VE3JC	559	539	ON	John	5w
	2003	W0RW	559	579	CO	Paul	5w
	2018	AE4IC	579	449	NC	Bob	5w
	2024	N4S0	579	449	AL	Ken	5w
	2028	N1NM	579	579	CT	Al	100w
	2034	N7MFB	559	449	WA	Bill	5w
	2038	KB0TCY	599	599	MO	Rick	5w
	2046	AC6KW	559	529	CA	Jeff	5w
	2049	W1ME	559	559	ME	George	1w
	2053	KS4HQ	449	449	NC	Bob	5w
30	2117	KT4PF	579	559	SC	Charlie	100w
	2120	W5K0D	579	579	TX	Bill	5w
	2124	W0UKI	559	449	MN	Bob	5w
	2131	N4BP	449	339	FL	Bob	5w
	2136	AB7TT	339	339	AZ	Joe	4w
	2143	WA3NRC	589	579	PA	Harold	
	2201	NR5A	579	559	SD	Jerry	
	2209	WJ4P	579	559	SC	Randy	5w
	2212	K6JI	339	449	CA	Ben	5w
	2216	N0TFI	559	569	CO	Jess	5w
40	0012	N4NK	579	559	SC	Les	4w
	0015	KK7BD	559	559	AZ	Dan	5w
	0019	KB5PX	579	459	LA	Ray	
	0031	NF0R	449	449	MO	Dave	5w
	0040	AC5AM	579	569	LA	Bob	5w
	0102	WB5QYT	559	559	NM	Tom	5w
80	0340	W4ED	579	559	GA	Bob	5w
40	0347	N7KT	559	559	AZ	Roger	4w
	0350	WB5QYT	559	569	NM	Tom	5w
	0353	N6XU	559	579	CA	Stan	5w
	0401	WA2IPZ	559	579	ID		5w

All qso's were made with a Kenwood TS-940S reduced to 4 watts. The antennas included an R5 for 20M/15M and Butternut HF2V vertical for 30M, 40M, and 80M.

Special thanks to AE4IC and N4SO for copying me when I was trying to force my 4 watts on 20M into my low band antenna.

Due to the schedule I kept I slighted the closer in states like MI, IN, WI, ILL, KY, TN, NE and IA. If anyone should need Missouri 2xqrp from any of those states or any other for that matter I would be happy to oblige. Send me an email and let me know when and where you would like to try.

All in all, it was a blast. Other than a few rtty contest, I had never been the object of a pileup before. Fun!! 73 to all. de Dave, N0IT

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [10148] FSFD WVA & NEB
Message-ID: <199701280437.WAA17613@admin.inetport.com>

Well sorry to say I missed them both today...

Listened on 40 for NEB from 0210 til
0330 and the old story... "couldn't hear'm
or anyone workin'um"...

Did answer some CQs on 40 and worked a couple
of QSOs with my 5 watts:

Clark KS4KY in SC... He was running 50 W...
Sonny KB5AA in LA... He was also QRO
Tom K4GKF in TN.. Looked QRO on my meter..

and a couple of "half QSOs"...You know the kind
where he sends his dope, you send yours and
you never hear anything again....Don't know if
the band just dropped out or what. I can remember
making some of those happen when I was a novice
and someone came back to me too fast....

Mike KB8ZET in MI... Gave me 599 ... I may have been too fast..
Jerry W4JCH in KY... Gave me 569 "fair condx" .. Band got my
puny 5 watts here I think.

The band really sounded not too bad here during that time...

I think maybe a good way to build up the FSFD count is to get on in the evening and roam from 7040 up to 7050 and down to 7030 answering CQs...

Now 80 was another story... Listened from about 0330 to 0400 around 3560 ... QRN S7 to S9... Never heard ANY sigs here...

We had a frontal passage here today about 2200Z, and although nothing but wind and cold with it, perhaps that accounted for the QRN....

Next time....

KA5T - Larry Wise - Georgetown, Texas - lewise@inetport.com QRP-L 89
ex: KN80SG K80SG(1959-1967 MI) W6HED(1967-1968 Ca) W4ZTB(1968-1978 FL)

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
Subject: [10181] FSFD-MN QTH Address
Message-ID: <970128134203_70511.3041_IHD48-1@CompuServe.COM>

Gang:

Thanks to one and all who stopped by to work me during my stint as FSFD for MN.

Here is my mailing address for your QSL:

W. D. Lindsey K0EVZ
MWBC
519 16th St SE
Rochester, MN 55904

I look forward to hearing from you!

72/73,
--Doc/K0EVZ QRP-L #861 MN-QRP #20 ARRL

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: GREGOIRE@endor.com
Subject: [10245] FSFD/ AA1IK QSL FOR NH
Message-ID: <Chameleon.970128180250.GREGOIRE@Gregoire.endor.com>

Hello Gang,

CT,KS, NE, ND, OR, UT, WI, are the states that I would really like to hear from tomorrow. I have worked CT and WI, but cant seem to get a QSL card from them.

That would finish up my QRP WAS,on CW at least.

The following is my QSL address. A QSL of 100% is gauranteed.

de AA1IK, Lead by example.
Ernie Gregoire

 It is better to pull a string,
 than to push it.

R.R. 1, Box 221,
South Rd. Fists # 2644, N.E.QRP # 202
Canaan, NH. 03741 QRP-L # 95, Fly fisher & tier,
 Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@W1WOK.FN43FE.NH.USA.NA

01/28/97 17:53:58

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Chris Cartwright <ccart@vidtel.com>
Subject: [10197] FYBO and Explorer II
Message-ID: <Pine.LNX.3.93.970128102538.711B-1000000@dns.vidtel.com>

Well my QRPP arrived in MD yesterday, and reminded me that FYBO is coming up. Having already picked out a high cold field spot, near the borders of three states, I'm planning on taking my newly aquired OHR Exp II and having a ton of fun. The QRPP multiplier is the only one I stand a chance of missing. So my question is, would there be any ill effect to turning R23 (drive adjust) to 0.95W out? I spent most of Saturday tuning it for the 7.100 to 7.170 and getting the power out to 2.9W :) Also would turning that down affect the other alignments (i.e C20, C24, C27) ?

Did I mention that I'll be signing N3XRV/T? TIA (another TLA)

-- Christopher Cartwright, Tech. Engineer | ccart@vidtel.com
-- Phone 301.990.0735 N3XRV QRP-L #655 | ccart@erols.com

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ukii@megsinet.net (ukii)
Subject: [10233] Help with Toriod winding.
Message-ID: <01BC0D2D.6A1FF560@randolph2er1-13.megsinet.net>

Ok... Dont laugh! I never wound a toroid before, and even though
the instruction manual seems clear, one point they left out is...
Do I space the turns out to encompass the entire toroid?
Guess what I am asking is are the winding close spaced, or what?
I know it seems like a simple task, but I need help already.
Boy, instruction step #1 and I already have a question... Hope there
aint 108 steps!

I REALLY want this kit to work, so I will do my best
to follow every step as close as possible. Everything is going
to be neat etc. Seems my previous, defunct, 49er, although soldered
nicely, has too many jumpers from the rit mod, and just oscillates on
its own...

So.... All you kit builders, I will be picking your brains on this one!
Thanks so much !
73 de john
n9ukx

(I hope Norcal will continue to sell me kits!)

*** if it doesnt have a Sidetone,
it must be a CB ***

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: k5vp@earthlink.net (Kevin Potter)
Subject: [10238] Help with Toriod winding.
Message-ID: <v01550100af13b9d30c42@[206.149.202.78]>

>Ok... Dont laugh! I never wound a toroid before, and even though
>the instruction manual seems clear, one point they left out is...
>Do I space the turns out to encompass the entire toroid?
>Guess what I am asking is are the winding close spaced, or what?
>I know it seems like a simple task, but I need help already.

>Boy,instruction step #1 and I already have a question... Hope there
>aint 108 steps!
> I REALLY want this kit to work,so I will do my best
>to follow evrey step as close as possible. Everything is going
>to be neat etc. Seems my previous,defunct,49er,although soldered
>nice,has too many jumpers from the rit mod,and just oscillates on
>its own...
> So.... All you kit builders,I will be picking your brains on this one!
>Thanks so much !
>73 de john
>n9ukx
>
>(I hope Norcal will continue to sell me kits!)

Whatever questions you don't ask, I'm sure I will. If I have too many,
I'll forward my questions through you. ;-)

Look forward to your questions.

Kevin
aka
Lemming #2

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ukii@megsinet.net (ukii)
Subject: [10128] IMHO -Results.
Message-ID: <01BC0C89.97F80D00@randolph2er1-8.megsinet.net>

Well,Thanks to the multitudes who promptly informed me that
IMHO was In My Humble Opinion.
There was one individual (nameless) who said it was HONEST opinion.

A few people sent me lists of all the different abbreviations common
to the web.

Now,can someone tell me WHY we have to abbreviate everything?
I dont wanna hear about saving bandwidth,3 extra characters cant
plug a system that caters to SPAMing...
I thought we should only use those abbreviations when we
were using the CW mode.
I dont remember the last time I talked to Mr. X and he said
"GM DR OM,IMHO UR QRL IS QRU,SO I MUST QRT TO WORK"
or "HEY JIMBO,THE FAQ'S ON THE WX ARE AFU" etc etc.

Anyway, maybe I am just too naive to understand all these ABV's
but can't we all just TALK? I am guilty of abbreviating certain words,
because I can't spell!
Anyhow, Thanks to everyone for the answers...
(no asbestos suit, so please QSY! HIHI)
Best 73 de John
n9ukx

Oh, is it possible the QRP'ers are entitled to abbreviate everything
as it is LESS, rather than MORE?

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Joe Everhart <n2cx@voicenet.com>
Subject: [10144] January 1997 NJQRP meeting
Message-ID: <199701280422.XAA09049@mail3.voicenet.com>

Gang,

NJQRP held its January meeting last Saturday and when it came time to pick a
volunteer for the report on it, everybody else took one step backward! No
fair, I was sitting...

Anyway it was a very good get-together, though each one reminds me of Ma
Gump's mama's box of chocolates...

Bill Creekmore and his wife Jane graciously hosted the soiree and, as usual
everyone brought lots of goodies to eat! Attendance was fine, too, here is a
list in member number order: Vince - WA2ECP, David - N2SMH, Joe - N2CX, James -
KA5DVS/2, Rich - WB2RAR, Tony - W2GUM, Pat - KA2GSL, Ken - N2CQ, Bill - W2DP
and his wife Jane, Herb - K2HPV, Jim - K3QIO, Dean - N2TNN, Bob - N2EAA,
Howard - K3HW and his wife, Paul - KC2AHB, and new members George - KG2DR
(and, of course his wife) and Marty - NR3Z. We heartily extend our welcome to
the newbies!

It all began with the usual pandemonium, with everybody showing off his latest
"toy radio." New additions were Rainbow Bridge/Tuners by proto builders W2DP
and KA5DVS. Both were in Altoids tins but neither was done the way that
protos *I* built :-). Also in evidence were a couple of 38 Specials as yet
unbuilt - I think that some other folks (who shall remain anonymous, must have
gotten "38 Special flu" so they could build them up).

Of special note was a work in progress by KG2DR. He took a bargain basement
synthesized AM radio and added to it, to come up with a unique 30 meter QRP
rig. He passed out notes on it to interested parties, but we've gotta get him

to write it up for the QRP community!

Tony, W2GUM showed off his clever and inexpensive base mount for the NEQRP 20-30 portable PVC mast. He jsut has to write that up for the NEQRP newsletter!

The weather was not conducive to antenna raising or outdoor operation, though there were some skywires in evidence along with a Wrist Rocket or two and lots of anxious stares outside to see if it was worth the effort. But it just wasn't cold enough and there was no snow, so any antler raised would not have performed well at all.

A good deal of time was taken up by club business dealing with the Rainbow kitting project. As much as I hate meetings this one was excellent because of the cooperative spirit and super ideas from the membership. Several willing volunteers were commissioned to tackle parts procurement and pre-kitting tasks so that we can rapidly assemble kits at our next meeting in February. On that same subject, our long-suffering order taker KA5DVS/2 reported that we were on the verge of our 200th order! Based on that great response, we decided to enlarge the initial run of kits to 300 isntead of the original 200 limit. And, of course we'll evaluate another run once we have processed these orders. BTW, we intend to take along some kits to Dayton to capitalize on the QRP fever rampant in May.

I reported a snag resulting from a cascade of events. More in a separate report, but a revision that came out of the prototyping effort may delay kit shipping until the end of February. Otherwise all is progressing well. We should have all of the parts by mid-February and Bill, W2DP is doing a fantastic job on the manual, including a multi-color cover and maybe even a picture by Dean, N2TNN!

As the crew was departing, Howard, K3HW called to report that he would be arrive soon with some "hamfest parts." The curious among us delayed our departures out of curiosity (and greed). He arrived with his wife and dog and, most importantly a back seat and trunk overflowing with electronic components! He annuoned that we could help ourselves just so long as we left a couple of each item for him! Wow, what a guy! Of course when we all got home we had to face our significant others' questions of "how much did *that* cost" and "just where do you think you're going to put more junque?"

All in all a good meeting!

72/73,

Joe E., N2CX

>From Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: cjsterl@ix.netcom.com (Craig J. Sterling)
Subject: [10210] Johnson Match-Box
Message-ID: <199701281708.JAA08873@dfw-ix9.ix.netcom.com>

Greetings,

A short note of thanks to all that responded to my post re coverage of the WARC Bands with a Johnson Match-Box. Wow! What a mixed bag! Some say they have no problem tuning the WARCs...others say "forget it". Obviously, it really depends on the antenna system.

According to my 1954 Handbook, the unit will match balanced antennas from 25-1200ohms. Loads unbalanced or single wire antennas of approximately 25-3000ohms. COST: \$49.95, SWR Bridge: \$9.95 add'l. Don't forget a single-family house back then cost \$8K to \$15K depending upon where!

Thanks again,
Craig, AA3MD

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [10218] Johnson Matchbox
Message-ID: <52272.owen@apollo.eeel.nist.gov>

To those asking about and looking for a Johnson Matchbox, the following ad just appeared on the packet BBS when I checked at lunch time.

Have good matchbox #250-23 (275 W unit) with some scratches, no dents in perfect working condition for \$75.00. No Manual E-mail H0rowitzorowitz@juno.dcom Note: this address doesn't look good to me. or call 954-742-0832 anytime. Might be worth a phone call if you're looking for a Johnson. 72 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Mike Duke <gmduke@oscar.teclink.net>
Subject: [10129] K5XU FSFD RPT FROM MS

Message-ID: <Pine.GS0.3.95.970127192307.29385H-100000@oscar.teclink.net>

Wow! What fun until the thunderstorms caught up with me at 0245 or so. The venerable HW8 did quite well. To save space, the rst ranged from 339 - 569 on both ends. Not bad for 3 watts into a sloper which favored the northeast. Here are the stations that I was able to pull out of the noise:

KE3FL - MD, VE3JC - ON, WA8LCZ - MI, AA1MY - CT, W2JSF - NJ, N4BP - FL, K2SJB - NY, K3QIO - DE, N2IUI - NJ,, and (on Saturday afternoon) K4JPN - GA.

Tried 30 meters with N4BP, but didn't hear anything from anyone there.

Had good intentions of being back on Saturday evening, but my mother and I had an altercation with a run-away boxcar at 4:00 P.M. Saturday. Although we walked away from a totaled automobile, we didn't settle down for a while.

I will be back in Newton, where the antennas are, on February 7 - 8. Unless Jim has special plans for another special station, I'll try 40 again on Friday evening, plus on Saturday morning as has been suggested to me privately. Can easily work 80, 30, and 20 also.

I'll post again late next week when I know more about my schedule.

If you're within driving distance, come to the Jackson MS hamfest this Saturday and Sunday.

73, de K5XU
Mike Duke,
Jackson, MS

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [10178] LDG AT-11s - NEW purchase!?!?
Message-ID: <Pine.3.89.9701280711.B18356-0100000@w3eax.umd.edu>

This is classified as a NEW PURCHASE so nobody feels badly, but if we can get even EIGHT people expressing interest today...

We're currently at 38. If we get to 50 EVERYONE gets it for \$120 for the kit (normally \$150).

If you have INTEREST in purchasing one for \$120 (plus \$30 for encl, if desired) PLEASE let me know. I know people have expressed interest in hopping on the bandwagon and I've turned them away; I am sorry about this if they've then gone and bought at full price.

I didn't plan on this but if we can do this, everyone gets it for \$120 (INCLUDING those who already had orders for the last purchase!)...

LET ME KNOW NOW. Thanks. The big order is about ready to go...

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [10209] LDG tuners to ship this weekend
Message-ID: <Pine.3.89.9701281108.F18867-0100000@w3eax.umd.edu>

Yes, I KNOW it's taken a while. The order would have been in last week BUT Jennifer at LDG was out of town for much of the week and NOTHING got processed. It was unexpected and sudden and she's back and will be shipping the goods to me by tomorrow. I should have them Thursday or Friday.

I am working on it. It's a BIG order.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Mike Duke <gmduke@oscar.teclink.net>
Subject: [10125] MAILBOX FULL
Message-ID: <Pine.GS0.3.95.970127191045.29385E-1000000@oscar.teclink.net>

Thanks for all the affirmative replies re the "Mailbox Full" message.

73, de K5XU

Mike Duke,
Jackson, MS

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [10239] Mandatory Fix Revisited.
Message-ID: <19970128.171153.11983.0.WB8YGG@juno.com>

Oh boy, this is almost funny!

I messed up the fix, now I think the fix to the fix is messed up.

Anyway, let me explain from the schematic perspective, and skip the artwork discussion at least at first.

I hope this ends this :-).

Anyway, look at the schematic, and the lower right hand corner in particular. See the A designator. coming from C32 220 pF. Ok, see where it connects on the left side of the drawing at R19.

OK so far..I think I haven't made a mistake yet.. :-)..

Anyway, we want the A on the right side to connect to The R19, C34 junction through a NEW 4.7K resistor.

Ok that said, right now, in artwork , C32 is connected to R19 directly, and that junction will have to be cut. Once Cut, you need to connect C32 to the R19, C34 Junction via a NEW 4.7K resistor.

Now , looking at the front of the board, the side of C32 that needs to be disconnected is the left side. And the side of R19 that you want to connect C32 to through the NEW 4.7K resistor is the bottom side of R19.

This Mod allows for the TiCK keyer telemetry tones to be hear, where without it, they will not be heard, especially when there are signals on the band.

Now, unless I mess this up again...:-). Onward and upward.

73 everybody, and sorry for the confusion!

Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Len W. Touth" <len@infinet.com>
Subject: [10147] MEETING: CQrp Columbus QRP Club
Message-ID: <199701280429.XAA04770@mail1.infinet.com>

Hello gang:

Just a reminder to all area QRPers that CQrp - The Columbus QRP Club will be meeting on Saturday, the 1st of February at 10:30 AM. The location once again is Universal Radio in Reynoldsburg, Ohio.

Details will be posted on our web site.

We sure hope to see anyone interested in QRP as well as any guests there. The agenda items this month should prove to be FUN!! Among these are the CQrp Challenge contest and preliminary plans for field day CQrp style.

CU there.

Best 72/3

Len

KG8SF

len@infinet.com

kg8sf@key.com

QRP-L # 841	CQrp # 2	ARCI # 9025	FISTS # 2134
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CHARTER MEMBER - THE COLUMBUS QRP CLUB - CQrp

Web Page: <http://www.infinet.com/~len>

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>

Subject: [10153] Mobile ant (long)

Message-ID: <M1255318.003.pc102.1.970128050036Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Jim:

You are doing fine. Lowest SWR and lowest impedance should not occur at the same place with a loaded mobile antenna, unless you have a heck of a lot of loss.

The RF-1 measures SWR against an internal 50 ohm reference. The feedpoint impedance of the mobile whip should be less than 50 ohms at resonance.

You should be tuning for the lowest impedance you can get. At this point you will have tuned out all reactance and will be looking at the resistive feedpoint impedance plus ground loss. At this point you won't be able to tell how the two Rs are distributed, you just want the total R as low as possible.

Once the R(total) is as low as possible, you can worry about matching the resultant Z to the feedline. (At resonance, $Z=R$, so the terms can be used interchangeably) You have a feedpoint Z that is lower than the feedline Z, so you need a step down matching arrangement.

Depending on how much adjustment range you have, you can use an L network where the C is from the base of the ant to ground, and the L can be lumped into the main antenna coil. The feedpoint is still the base of the antenna. I have an ancient Webster Bandspanner with a continuously adjustable coil, and this works well there.

If your antenna has its inductance fixed, then a small variable inductance between the center of the feed line and the bottom of the whip will do the job. The C goes from the center of the feedline to ground.

Another scheme that works well is to use a tapped autotransformer. You will see them commercially, but you can wind your own easily. As described above the antenna must be resonant with the lowest feedpoint impedance you can achieve. Get a large toroid for the frequency range of interest, and space wind maybe 10 turns of heavy wire on it. The heavy wire is needed because at the very low feed point impedance you are talking lots of current but not much rf voltage. Now tap the coil at each turn. Ground one end of the coil. Connect the center of feedline to the top of the coil.

Connect the bottom of the antenna to one tap at a time until you find the best match. You can do this with the RF-1 looking at the top of the coil, instead of a transmitter. When you have the right tap, you will be closest to a 1:1 SWR match. The RF-1 is looking at the 50-ohm point on the coil, and the ant bottom is at some lower Z.

If you are working at 80m, you will have a fairly narrow bandwidth to the

antenna. The small inductance that this method adds at the bottom will tune the antenna down in freq a small amount. You may need to change your stinger setting a bit to bring the antenna back up in freq if necessary.

This is rough but I hope you follow the ideas. These have been used for many many years by generations of hams, so you can have confidence in the methods.
73, Bob N6WG

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Jouni Tuhkio <tuhkis@sci.fi>
Subject: [10216] NC38S & thumbs in my ears
Message-ID: <3.0.32.19970128195918.00683f74@sci.fi>

Hi everyone,

Well just finished the 5W mod to NC38S. This was my first kit and enjoyed much of making it. Manual was great and I have followed this list regularly so all the tiny improvements to mods is done. There was some missing parts, all the .1 caps and 4.7uH choke, not hard to find from local store. There was no IRF510 available but BUZ72A seems to work fine also. Mine takes 27mA RX / 780mA TX about 4W out. The choke I found is wrong, tunes down to 10.070 but ordered some 6.8uH=B4s.

The sound of the TX is good enough, C501 is now 200pF and C26 330pF, try to check it anyway with oscilloscope, I have only multimeter and old Trio 9R-59DS. Not yet done the RIT mod and TiCK hasn=B4t arrived so I use my CMOS II for keying.

Sidetone is great but those thumbs on every end of dit and dah worries me. What can be done? Anyone else has the same trouble? Using hand key thumbs are still there...

Now looking for a good cabinet, tune my HF6V-X vertical and at least one NC38S is QRV here in Finland, wonder if I can someday make a NC38S/NC38S qso...

73&72 Jouni Tuhkio, OH3LZU QRP-L #839 ARS #218 Email:oh3lzu@inorbit.com

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: kd7s@psnw.com (Bill Jones)
Subject: [10166] NC38S DX Machine
Message-ID: <199701280627.WAA20159@sierra.psnw.com>

=====
I just had a QSO with JA7FRT, Hide, in Fukushima, Japan with my 38 Special. Hide was running 200 watts to a 3-element Yagi at 55 feet. I was running 5 watts to a Butternut HF6V-X roof-mounted vertical. He gave me a 549 until

the QSB monster ate my signal at 0616Z. So much for the 38 Special being a "toy" radio.

=====

Bill Jones - KD7S <><
Sanger, California
Reply to kd7s@psnw.com

=====

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: wd4et@juno.com
Subject: [10193] NE602 Article
Message-ID: <19970128.100749.4910.2.wd4et@juno.com>

While scanning the magazine rack at my favorite bookstore, an electronics mag caught my eye. There are probably numerous lemmings like me that will find it interesting. It is an excellent article on the NE602 written in a tutorial manner. It covers all phases of using the chip with example circuits for input, output, local oscillator, etc.

You can find it in the February edition of "Electronics Now" on page 47.

73, Jeff WD4ET

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "STEVEN V. SELLMEYER" <ss94239@navix.net>
Subject: [10142] Nebraska FSFD Report
Message-ID: <32EDA638.5B17@navix.net>

Ok gang, here is my posting for the evening under I think very lousy conditions for 40 meters. Lots of QSB & QRN to boot. Needless to say my nervous fist did not help matters any either!!!!

In order of stations worked:

W2DP/NJ.....359
KE4YHK/FL.....229
W5VB0/AZ.....239
KK7BD/AZ.....339 but a chirpy tone actually.
K6JIK/??.....329 first time but second was 229 with very bad QSB. Sure tried hard didn't we??? Ha!!
K7TP/CA.....339 and Grover thanks so much for the QRS. Sorry I'm pokey

but mostly I was just plain nervous not knowing really what to do.

Probably were more of you there but guys I strained my ears off the KW TS-50 trying to pull you through. Ran 2 watts to an inverted V @ 25ft running North to South. Anyway, now that I've done it and alone (think my partner forgot) I'm willing to do it again if needed. I'll have WB0QPA's report for you tomorrow as I'll call him after I get home from work. One last note: I'm ALL EARS for a critique from those who heard or made contact with me. This was my first time doing anything like this and I'd like to know how to improve.

72's...Steve...WB0QQT

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Kirby, John" <John_Kirby@ATK.COM>
Subject: [10180] No Tuner Antenna
Message-ID: <c=US%a=_%p=ATK%l=ATK/MPLS/00055984@Exchange_MN1.ATK.COM>

RE: Suggestions for backpacking antennas

Larry,

Check out THE W7YS SLOPER (Worldradio, Feb 97/page 39)

"The nice thing about the antenna is that you can use it without going through an antenna tuner..."

I use the sloper technique while camping (5th Wheel) and it works great...

I carry a sling shot, one ounce fishing weight, and twenty-pound line on a small SPINNING reel...

72/3 John

N3AAZ

>-----
>From: Larry Gagnon[SMTP:lgg@ampolexusa.com]
>Sent: Monday, January 27, 1997 10:54 AM
>To: Low Power Amateur Radio Discussion
>Subject: Suggestions for backpacking antennas
>
>

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: Bill Todd <bill@techline.com>
Subject: [10171] NW QRP Digital Contest This Saturday!
Message-ID: <1.5.4.32.19970128073441.00665804@mail.techline.com>

Hello Group(s) -

Remember that this Saturday (Feb 1st) is the date of the NorthWest QRP Club's 1st Digital contest.

The contest period runs from 17:00 UTC on 2/1 to 05:00 UTC on 2/2 (UTC date). In your log, submit the BEST 6 hours of operation.

Note: QST got the date wrong (i.e., Feb 8th), but CQ Magazine got it right, as well as most of the QRP Journals.

If anyone on the NWQ-L or QRP-L need a little help getting their TNC to work right with the digital modes (like...you forgot :-)), just drop me a note, and I will try to help.

CU on Saturday!
DE Bill-N7MFB

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ALK0FRP@aol.com
Subject: [10211] OHR Classic SOLD
Message-ID: <970128120524_1893511553@emout04.mail.aol.com>

OHR Classic SOLD

Al K0FRP

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [10244] OOPS, Thanks on queries,FS
Message-ID: <n1357652084.80583@msmailgw1.arlut.utexas.edu>

Hit the keys too fast.---

Thanks for any prices the group has--

Here are some items from a QRP'ers estate, Charles N5GFX:

MFJ Deluxe Keyer with instructions, Model 407 \$50 plus shipping, obo.

Excellent condition with leads, and power connection.

MFJ Econo Keyer Model 401, with manual, in original box, with connecting leads, excellent condition, \$40 plus shipping, obo.

Benchner black based iambic paddles \$45 plus shipping, obo. Excellent condition, with cable and plugs. [And if you know how to pack these for shipping without the spring parts jumping out, please advise.] Rubber bands??

Ham Key brand, (Ham Radio Outlet?) paddles on black painted base, with red finger grips. These were an import and to have good action should have a stiffer spring, INMHO. I once bought a set at a swap here for \$10, (plus shipping) so I think that should be fair price, and you can improve them to much more value. Again with cable and plug.

All proceeds go directly to the widow, I am just helping by posting, and will see to the packing for best shipment. What I would suggest is UPS collect, which eases the exchange of money, for a modest fee.

Any of the above, and the two following items which are too heavy to ship economically, could be delivered at the Nortex Club meeting Feb. 1, this Sat. in Dallas, (if the creeks don't rise).

35 Amp import? power supply, metered for voltage and another meter for current, similar to Astron in size. (This may be a Tripp Light, but some other stuff was in the way that I could not lift.) 12 volt regulated output, like new condition. Was in use as main station supply. Easily worth \$140 obo.

Astron 12 Amp supply, 12 volts regulated, used for several QRP rigs, but in like new condition, with schematic. \$40 obo

Any items remaining will go to a swapfest at Georgetown TX, Sun. 2 Feb. 12 noon at the Community Center in San Gabriel Park.

I am still sorting technical books. There are some priceless gems like a hardbound copy of Terman's Electronic and Radio Engineering, mint condition, part of the McGraw Hill series in Electrical and Radio Engineering, edition of 1955. A classic, \$20 firm.

There are a number of QRP books, but my list got left, and I will repost when I have the details in hand. Sorry about that.

There are QST's from 1949 to Present with gaps in years, but she is asking 25 cents a copy, and we have some years complete in those display boxes for shelves. In all about \$80 worth of QST, plus shipping.

There is CQ magazine from 1955 with gaps up to near present. (This gentleman

and his father were both hams.) Same deal 25 cents a copy, plus shipping.

The real gem is Ham Radio magazine. He does not have all the Jim Fisk years, but does start during the small format days, and continues with them up until they ceased publication. Same deal, 25 cents an issue, plus shipping.

We will break up year sets, because there are the gaps I mentioned in QST's and CQ's. So if there is a certain issue you lack, I could look for it this week. (I put all the magazines into boxes in date order, but after the swap meet, it could take me a time to get them back in order, if any left.)

Please email me offers/requests, etc. privately: <rohre@arlut.utexas.edu>
Thanks and 72,
Stuart K5KVH

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: GarySehne@aol.com
Subject: [10188] PC dots & Altoids
Message-ID: <970128094430_880987818@emout20.mail.aol.com>

Guys, I'm a few months behind in reading the mail, but having read some stuff on punching out copper clad dots to be superglued onto glassboard, etc, I thought, why not skip the middle man & glue the dots onto the inside of the Altoids tin itself. Instant ground plane & savings on height clearance too. I believe if the inside metal surface is degreased, the superglued dots would work fine. I may try this next time.

Has anyone else done this already with the Altoids "groundplane"??
de N2KTY/Gary

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Larry East <w1hue@amsat.org>
Subject: [10204] Peak Power Mod for OHR WM-2
Message-ID: <2.2.16.19970128163711.54d75e1c@eloi>

Just in case anyone is wondering, the "Peak Power" mod that I published in the January 1995 QRP Quarterly for the OHR WM-1 Wattmeter also works with the WM-2. In fact, it works better in the WM-2; the meter used in the WM-2 is "more responsive" and gives a more accurate indication of peak power.

However, the PC board layout for the WM-2 is different than the WM-1, so the figure in the article showing the board mod is not applicable. You will have to figure it out for yourself as I don't actually have a WM-2.

The peak power mod that I published in the December 1994 issue QRPp was revised in my article in the January 1995 QRP Quarterly. A reprint of the QRP Quarterly article can be obtained from the QRP-L web site:
http://qrp.cc.nd.edu/qrp-l/hints/w1hue/MODS_WM1.html

72, Larry W1HUE/7

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: wj5o@juno.com
Subject: [10222] PEP Watt meters?
Message-ID: <19970128.131452.10230.3.WJ50@juno.com>

Can't access the webb site. What's wrong?
Need info about converting Yaesu YP150 Wattmeter RMS to PEP.

The webb site I tried to access was
http://qrp.cc.nd.edu/qrp-l/hints/w1hue/MODS_WM1.html

73 Bill WJ50@JUNO.COM

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [10236] Pricing on ham access.?
Message-ID: <n1357655153.96178@msmailgw1.arlut.utexas.edu>

Could someone please tell me what the Autek QF-1 Notch, Peak, and filter unit sells for? I could not find Autek ads in the first couple publications I checked, and perhaps someone is more familiar with them.

Some years back, there was a DSP board offered to hams, called the W9GR (?). Wasn't it sold for about \$100 as a board kit? (You would then add box, switches display indicator, etc.)

Finally, does someone have the current price list and could tell me what the Vibroplex paddles sell for, the ones with painted base, not the fancy one(s)? (This is the one with chrome yoke like their new straight key.)

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "\"No Data Available\"" <earwax@indy.net>
Subject: [10243] qrp award
Message-ID: <Pine.LNX.3.91.970128171956.2575D-100000@trixie.qrp.com>

Gang,

For those QRP-L members who are also FISTS members.

QRP CENTURY AWARD

For this purpose QRP is defined as '5 watts or less' output power.

It requires 100 points total - work each station once for credit. Any band may be used.

A one-way (where one op is QRP) North American FISTS QRP contact is worth one point. A two-way (both ops are QRP) FISTS QRP contact is worth 2 points. A one-way DX QRP FISTS contact is 2 points. A two-way DX QRP FISTS contact is 4 points.

You could conceivably get the Award 3 ways.

Working 100 QRP FISTS stations (good luck on this one, hi - hey, but it could happen!!) while using more than 5 watts yourself.

Working 100 points worth of any FISTS while your running 5 watts or less.

Working 100 points worth of FISTS when both of you are using QRP.

QRO an QRP points can not be combined to qualify for the QRP Century Award, but may be combined for the basic Century Award.

For those who aren't FISTS members, check out their homepage at:

<http://n9nvv.qrp.com/~fists>

73 es etc...

Charlie, QRP-L #60

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
Subject: [10126] QRP Hall of Fame, last call

Message-ID: <Pine.BSI.3.93.970127200919.309D-100000@u1.abs.net>

For QRP ARCI members only: the deadline for nominating someone to the QRP Hall of Fame is the end of January, which is almost upon us. If you have someone you'd like to nominate, you have just a few days to get it to me. Or to save yourself the trouble of doing a detailed writeup, you might want to send a quick e-mail to see if your favorite QRP hero has been nominated already....or even if they're already in the QRP Hall of Fame!

Don't forget, only QRP ARCI members can nominate people to the QRP Hall of Fame, although they do not need to be members themselves to have their name submitted. Anyone can be inducted for outstanding service to QRP, whether a member of our particular group or not.

Voting will be done privately by the Board of Directors, President and Veep; additionally, at least this year anyhow, on a trial basis, the current HoF members will also be allowed to vote if they wish. The results will be announced publicly at Dayton, and will also appear in the July issue of the QRP Quarterly. (Or I hope they will; that's up to the editor, who always has hard choices to make since he's limited to 48 pages by Board of Director edict.)

73 and Queue Our Pea DE WA8MCQ

wa8mcq@abs.net

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: Bob Hightower <ki7mn@dancris.com>

Subject: [10196] QRP Web sites

Message-ID: <199701281526.IAA23744@dancris.com>

If you have a web site with QRP information, please check into mine and leave a note in the guest book with your URL. I want to put up links to other pages. Same holds true for pages with general amateur radio interest, or of some special page you have or know of.

73,

Bob KI7MN Chandler, AZ Grid DM43BI Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: Bob Hightower <ki7mn@dancris.com>

Subject: [10217] QRP Web sites

Message-ID: <199701281809.LAA00864@dancris.com>

>Return-Path: <owner-qrp-l@Lehigh.EDU>
>Date: Tue, 28 Jan 1997 08:26:21 -0700 (MST)
>Reply-To: ki7mn@dancris.com
>Sender: owner-qrp-l@Lehigh.EDU
>From: Bob Hightower <ki7mn@dancris.com>
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: QRP Web sites
>X-To: qrp-l@Lehigh.edu
>X-Sender: ki7mn@dancris.com
>X-Listprocessor-Version: 8.0 -- ListProcessor(tm) by CREN
>
>If you have a web site with QRP information, please check into mine and
>leave a note in the guest book with your URL. I want to put up links to
>other pages. Same holds true for pages with general amateur radio interest,
>or of some special page you have or know of.

Well, it seems as though the guest book is not capturing the URL's. Will have to try to fix that. Anyway, if you have (or have not) sent a note with the URL, please re-send via e-mail and I'll get it sorted out.

I'd sure like to put links up, and from what I am reading, some of the pages will be very nice.

73,

Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, AK QRP #30, not in any order of importance.

<http://www.dancris.com/~ki7mn>

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: George Gingell <k3tks@u1.abs.net>
Subject: [10152] QRPP Dec 1996 Issue
Message-ID: <Pine.BSI.3.93.970127235722.5639E-100000@u1.abs.net>

Just a quick note to say that I received mine in the Late Evening mail today. I also received Michigan Qrp Club T5W as well. Between email, the QRP-L Digests and these two I expect to be busy tomorrow. :-)

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net
Maryland Milliwatt QRP Reference Library, (301)572-6789

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Joe Everhart <n2cx@voicenet.com>
Subject: [10145] Rainbow kit update
Message-ID: <199701280426.XAA09608@mail3.voicenet.com>

Group,

You know, some times as well as you try to plan, things just conspire against you! NJQRP is kitting the Rainbow Bridge/Tuners and had been shooting for delivery to begin in mid-February.

However, there has been a design change as a result of feedback from our prototyping effort. The original idea was to use a SIP socket wired to the pc board for the Rainbow display. To make the kit easier to build, we decided to mount the SIP directly on the pc board, eliminating a whole bunch of hand wiring. Unfortunately this means another round of proto boards to verify the new layout. And on top of that, there is a delivery problem from the pc board vendor.

The bottom line is that we will not be able to meet our original goal of shipping by mid-February. We do expect to begin before the end of February. We apologize to everyone who is anxiously awaiting their kit and we will offer a refund to anyone who feels that he doesn't want to wait. Simply contact James Bennett who took the orders in the first place. His address will be at the end of this message.

Again we apologize for the delay, but we are a small inexperienced club who is trying to give you all the best possible kit we can. We certainly will give periodic updates to let everyone know where we stand. And we are certain that you will be very pleased by the end result.

To request a refund, write to:

James Bennett
309 Morrison Ave
Hightstown, NJ 08052

For any questions on the Rainbow itself, you can check with me at:

n2cx@voicenet.com

72/73,

Joe E., N2CX

>From Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com

home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: majewski@erim.org (Ron Majewski)

Subject: [10157] Rescheduled FOX

Message-ID: <9701280552.AA24641@spsd630a.erim.org>

Hello to all,

I somehow managed to miss my scheduled night as the FOX earlier this week. My apologies -- I have no good excuse and can't invent one that will make for good reading.

I'd like to reschedule for 0100-0300 utc on 1 February. That's 8pm - 10pm EST on Thursday, 31 January.

We've got a good snowstorm overhead this evening, so the QRN is pretty bad here in Michigan. Let's hope for clear skies and calmer ether by Thursday.

I hope my apparent state of confusion makes me an easy catch for you hounds!

See you in the fray and 72/3,

Ron (W8RU).

majewski@erim.org

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: Dan Keen <70731.722@CompuServe.COM>

Subject: [10158] screwdriver antenna const.

Message-ID: <970128055113_70731.722_EHM61-1@CompuServe.COM>

> Hi all....I'm forced to lurk on the digest due to excessive
> bandwidth so don't expect a prompt reply back from me, but
> has anyone built the BIG DK3 HG MOBILE ANTENNA (sometimes
> known as the screwdriver antenna)....It looks like it would

> be really handy to take on summer camping trip mounted on the
> (magic) 72 VW van for QRP work. I have had some trouble finding
> out how to wind the coil (given the skill level needed to
> operate a metal lathe to cut the grooves). Is there any
> alternative to using a metal lathe.
>
>
>

Wonder if you have a copy of the book by the designer, Don Johnson of Dos Palos California called "40 + 5 years of HF mobiling". One tip for the actual winding was the "key ring" method of making a single loop of wire around the form so that you had a single round "keyring". This ring would follow right along during the winding, providing the proper spacing between each turn.

The book said a truckdriver cut the form grooves by handtools while resting at truckstops, working an hour here an hour there and so on... The book is really about building and using the big DK3, not mobiling in general, full of tips, homemade mounts, etc., for the big DK3.

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: QRPDave@aol.com
Subject: [10227] St. Louis Tuner front panels
Message-ID: <970128150412_1579046981@emout11.mail.aol.com>

Hi guys! A couple of months ago, I obtained the address of a fine gentleman who created on bright yellow paper, labels for the front and back of the St. Louis tuner. Since mine arrived, it has been misplaced. Does anyone know to whom I might send the SASE envelope for another? TNX and 73, QRPDave@AOL.COM

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: James Parsons <k5rov1@worldnet.att.net>
Subject: [10201] Ten-Tec 40 meter kit...
Message-ID: <1.5.4.32.19970128161615.006604d4@204.127.3.1>

Hi, Chuck...

I have sure enjoyed your comments about the new TT transceiver kit. Also the pictures on your Internet page are fantastic! very easy to see just how everything is laid out.

I am planning on ordering one of the kits this week. But, one thing does bother me. The selectivity is shown as 1khz. Gosh, but that seems wide to

me. During the day, on 40 meters, I don't see a problem. But, at night and on weekends, that band can sure get crowded. And, 20 meters is even worse. With no audio filter, and none being planned (as far as I know), is the selectivity really adequate? If a DSP, or equivalent filter is required, we no longer have a small, compact setup. I would really like to hear your feelings about the bandwidth of the little rig.

I truly appreciate all your comments about the rigs shown on your pages. I also like the pictures of the keys. I have been on CW for over 50 years, and love to read about keys. But, I still use the Vibroplex Vibrokeyer single lever key (I have three of them) because I never learned iambic, and have a bad habit of hitting both paddles at the same time.

Thanks for all the help you have given in the past. It is a joy to be a part of the QRP-L group. I must confess to being a part time QRPer, however. I really enjoy the 25-50 watt levels, but I do drop power to QRP levels often and sure enjoy working the QRP gang. I feel that if CW survives, it will be largely because of the QRPers. And, they have proven that building, experimenting, and modifying is not a dead art.

Best 73 and thanks again...

Jim, K5ROV
ARCI-7422
NWQRP-146

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: jayboy@psnw.com (Jay & Jackie)
Subject: [10185] TICK order
Message-ID: <199701281418.GAA03124@sierra.psnw.com>

Hi,

See a lot of posts re the TICK installation....I ordered the full TICK kit back in early Dec but have not received it yet. Anyone else not get their kit, or am I just impatient?

Jay W6JDB

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [10189] TT1340 Linearity
Message-ID: <199701281455.OAA14677@chuck.dallas.sgi.com>

Gang,

In the pile of stuff on the desk that you can see in the photo of the shack on the web, there is a critter on the Right Hand Side that has a LCD display in the middle. Inside this relatively large case is a little bitty S&S Engineering Digital VFO, which I wrote a short review for the list some time back.

I still need to build an 80dB step attenuator to run receiver tests, but hey, if we run out of projects what will we do next.

Anyway, using this VFO as a signal generator I ran through the dial of the new TT1340 and here is what I got. Mileage may vary:

Dial	Frequency	Dial	Frequency
0.0	7.000MHz	5.5	7.029MHz
0.5	7.001	6.0	7.033
1.0	7.004	6.5	7.038
1.5	7.006	7.0	7.042
2.0	7.008	7.5	7.047
2.5	7.011	8.0	7.052
3.0	7.013	8.5	7.058
3.5	7.016	9.0	7.063
4.0	7.019	9.5	7.068
4.5	7.022	10.0	7.070 (well really 9.9
5.0	7.025		or so on the dial)

This measurements rounded so only good to about 500Hz or so. And who cares to that degree anyway?

Now here is an interesting problem. In a QSO and giving the rig, will people know what a TT1340 is? TenTec New QRP rig? TT1340 is OK, although a little longer than I like to carry on on the rig. HB is not descriptive enough. One thing for sure. With the all the different rigs the QRPers are using the rest of the world is going to need a map to keep track of what we are doing. :-)

FYI

SIG

Chuck Adams K5FO adams@sgi.com
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: n4js@amsat.org
Subject: [10235] Tuesday Night Fox?
Message-ID: <XFMail.970128165034.n4js@amsat.org>

Did I miss a post from the Tuesday night (NC, I think) Fox? I may have, as I was out of town yesterday.

Sent at 16:50:34 on 28-Jan-97

_\ _\ _\ _\
(N)(4)(J)(S)
 _/ _/ _/ _/

John L. Sielke n4js@amsat.org NJ - FM28LN
n4js@pobox.com n4js@hotmail.com n4js@n4js.ampr.org
<http://www.pobox.com/~n4js>

QRP-ARCI #9328 QRP-L #884 QCWA FISTS #2781 NE-QRP #507 G-QRP #9544

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [10183] Vertically-radiating dipoles and antenna modeling
Message-ID: <Pine.SOL.3.94.970128084951.21928A-100000@utkux4.utcc.utk.edu>

I have had a couple of questions about vertically radiating dipoles, those dipoles for 80 or 40 meters with an isolating device installed 1/4 wavelength down the coax feed. Since antenna modeling has been the subject of some interest recently, I thought I might share some notes as a lesson in how not to model unless you are selling a product or idea.

Supposedly the VRD gives improved low angle performance to a dipole from the radiation off the outer braid of the coax and also improves performance off the ends. I have seen numbers (misexpressed as dBi, when they should have been plain dB) of 17 to 20 dB improvement in these categories. Patterns are nice ovals--nearly circles. But how did they get this way?

1. Take-off angle: one source uses 10 degrees as the angle for making comparisons. However, the CAPMAN propagation charts in the ARRL Antenna book show that on 80 meters (the test band), the most common DX angle for all directions is over 15 degrees. So, to get good patterns, whatever the reality, use an artificially low angle of radiation.

2. Wire loss: one article specifies lossless wire. Although the difference between copper and lossless wire is not much for 80 meters, it is a difference; and most of us must use copper.

3. Ground: one article uses perfect ground; another source uses very good ground within the ELNEC selections. However, few hams have even average ground to work with. But in moving from very good to average ground, all those smooth ovals disappear.

Here are some numbers for 80 meters, using a dipole, an inverted Vee, and a VRD. All are at 60' max height, use copper wire, an elevation angle of 15 degrees, and average ground. Gain is the gain in dBi. Since the dipole pattern has pattern indents off the ends of the antenna, let's call one left and the other right and specify how much down the signal is in dB.

	Gain	Left indent	Right indent
Dipole	-1.3	-10	-10
VRD	-0.8	-2.5	-6
Vee	-2.0	-4.5	-4.5

What happened to those big wire-end gain numbers? They got lost in realistic ground conditions. What happened to the VRD oval? It turned into a gentle kidney bean shape. The VRD gain at best is a half dB over the dipole (about 1/12th of an S-unit) at this angle, but is less than the dipole at higher (shorter skip) angles. Although the gain of the VRD at 15 degrees over the Vee is about 1.2 dB, raising only the center of the Vee will yield an oval superior to the VRD over all ground conditions.

Note that the performance of the Dipole and the Vee are the same whether fed with coax or 450-ohm line. With the ladder line, one can use the dipole or Vee on all bands. The VRD is limited to 80 (in this model), since the coax and outer braid radiation terminating device are not multiband items.

I have not presented these numbers to encourage or discourage any types of purchases. Instead, my purpose is to forewarn newer antenna modelers against overly optimistic modeling practices that violate the reality of your situation. Magazine articles have been as bad as advertisements in this regard, since some folks live by selling ideas.

Choose a realistic ground for your area--odds are it will be no better than average. Choose realistic elevation angles--look up info in resources to find what is common to each major category of your operating. A modeling program is a supplement to, not a substitute for, all the other resources that help us understand antennas. Choose real wire--copper or aluminum are most common, and copperweld is copper. Then make a bunch of variations on your models, changing ground conditions up and down by a grade, changing elevation angles and making comparative elevation as well as azimuth plots, etc. One model at one angle is only the start of the process. But in the end, be honest with

yourself, since the antenna will not operate any better because the parameters have been altered optimistically. That will put you in a position to model commercial antennas to find the reality behind the advertising and to model for yourself what you read in the magazines. Also strive to understand clearly what differences make a difference in antenna figures. Finally, disregard all user testimony that does not emerge from good antenna ranges and well-designed A-B switching tests using freshly and carefully installed antennas of the types compared.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: k5vp@earthlink.net (Kevin Potter)
Subject: [10223] WARC bands
Message-ID: <v01550100af1393ee24f3@[206.149.202.28]>

Please tell me when the WARC bands were opened for amateur use.

Thanks,

Kevin

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Jess Gypin <jessqrp@concentric.net>
Subject: [10143] Web Page URL Change
Message-ID: <32E9BD59.3305@concentric.net>

Hi all,

Seems that my internet provider has reconfigured his remote server and the URL of my Web Page is now different....

[HTTP://WWW.Concentric.net/~jessqrp](http://WWW.Concentric.net/~jessqrp)

Hope you are still visiting.

Best

Jess N0TFI

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Robert Penneys <radio@UDe1.Edu>
Subject: [10200] Wire ant. w/SG-230 tuner??
Message-ID: <199701281615.LAA07695@copland.udel.edu>

I am thinking about trying out the SG-230 auto-tuner with some wire antenna or other at home. Ever use one? Anything you liked or not?

Please let me know. Tnx, Bob N9GG

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: PDouglas12@aol.com
Subject: [10234] WJ2V's St. Louis Tuner sold
Message-ID: <970128162334_1726607165@emout07.mail.aol.com>

Sierra is still up.

72,

Preston

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Leon Heller <leon@lfheller.demon.co.uk>
Subject: [10230] Re: 2m CW kits/designs/etc?
Message-ID: <JrvzvWAKck7yEwqX@lfheller.demon.co.uk>

In message <9701280016.AA20059@artemis.fc.hp.com>, KB0VCC
<dalea@artemis.fc.hp.com> writes

>
> Hi Gang,
>
> Like Brian, I too am looking for 2m rig info, but specifically,
> 2m CW designs. I'd REALLY like to see something in the
> ultra-simple, bare bones transceiver catagory. Spare me the
> schematics of your FT-736, Hi hi. Any VHF D-C designs out
> there? If not, why? Given all of the off-the-shelf VHF/UHF
> linear devices and filters, etc out there, it looks almost
> plug-n-play.

The old RSGB VHF/UHF Manual (4th edition) has a simple 2m DC Rx. You

could always build the QST R2 phasing Rx.

Leon

--

Leon Heller, G1HSM

leon@lfheller.demon.co.uk

Tel: +44 (0) 118 947 1424 (home)

+44 (0) 1344 385556 (work)

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: JCoote@aol.com

Subject: [10207] Re: 2m FM or all mode rig plans

Message-ID: <970128115952_1893508012@emout02.mail.aol.com>

In a message dated 97-01-27 17:50:59 EST, buydens@duke.usask.ca
(Brian.Buydens@usask.ca) writes:

>

>Are there any plans/kits/schematics for 2m FM rigs?

>

>Brian.

Brian & Group;

Ten-Tec is marketing a new product line called "T-Kits". They feature the 40-meter CW rig reviewed here on QRP-L, CW rigs for other bands, accessories, transverters, and kits for 2-meter, 6-meter and 1.3 meter FM.

The VHF kits have memories, offsets, CTCSS/PL tone.

I haven't built one so can't tell you more.

73, Jay

W6CJ

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>

Subject: [10226] Re: 3.560 MHz Xtal Source?

Message-ID: <854475129.1029516.0@gqrpclub.demon.co.uk>

I would imagine Kanga (USA) would stock them, no doubt you will soon find out!

Have fun.

---72/3---Frank G3YCC G QRP 042

QTHR (Kirk Ella, East Yorkshire)
QRP Web sites: <http://www.gqrpclub.demon.co.uk>
<http://www.geocities.com/CapeCanaveral/5179>

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: torell@sicom.com (Kent Torell)
Subject: [10228] Re: 38 Special Status
Message-ID: <v02130501af1405e46b78@[192.91.202.41]>

Busy hands, eh?... :-) Thanks to you and your family for your work!

>Again, please remember that NorCal is not a company. All labor is
>volunteer. Yet we receive demands and requests that would be normal if we
>were a for profit company, which we are not.

I think some of these demands, or requests, are because the people don't know what it takes to make a board, or do documentation, or kit parts, or mail a bazillion packages, etc. Your posts on your activities in doing all this work have helped me a lot in understanding just what goes into the effort. I'm sure this is one reason that the NJQRP club had the courage to offer a kit! Keep those info messages coming, Doug and Joe, 'cuz there are other clubs getting their courage up to try this too!

Thankful in Phoenix, Shameless FYBO Plug (tm)
AB7OA Don't forget FYBO...Feb 22
(....qrp is not for sissies ;-)

Kent Torell torell@sicom.com 602-483-2867 x230
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260
AB7OA qrp-1 57 ARCI 9075 DM33xn 33.55 N 111.078 W

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Ed Tanton <n4xy@avana.net>
Subject: [10131] Re: 38S and voltage regulators
Message-ID: <3.0.32.19970127204538.009c46d0@tiger.avana.net>

For those people with battery questions, both Eveready and Duracell have web sites:

<http://www.eveready.com/>

<http://www.duracellusa.com/>

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)
Subject: [10133] Re: 38S and voltage regulators
Message-ID: <199701280201.SAA28770@netcom16.netcom.com>

I use a text-only web browser for the moment, so maybe I don't see it for that reason, but I can't find ANY technical information on the Eveready page. I was looking for capacity numbers for the 223 lithium photo battery.

73, doug

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ori@juno.com (Ori K Mizrahi-Shalom)
Subject: [10162] Re: 38S and voltage regulators
Message-ID: <19950127.220805.4367.7.ori@juno.com>

Doug,

For portable operation I would also consider the following
environment-friendly
solutions:

- (1) a 7.2V NiCad pack (with reduced power) - just bypass the regulator!
- (2) 7-8 cells of 1.2V NiCads with a low-drop diode in series, again bypass the regulator
- (3) 9.6V NiCad pack with a low-drop regulator
- (4) 9V from 6 rechargeable alkalines with a low-drop regulator

The capacity of standard AA Nicad cells is about 600 mAh, but that's at low discharge of 60mA. Maybe someone can give a realistic value for 100mA. To be conservative at 70% capacity this should be good for 6 hours with 40% key down. Not bad, but don't count on more than 200mW by the end of the day.

The rechargeable alkalines are rated at 1300 mAh (probably mid-life, after 10 charges). The current consumption is not too high to consider them good for their rating, so they will provide for a long day in the field at full output power (a whopping 300mW!)

The 7.2V NiCad (in a 9V-style shell) is rated at 150mAh. I would carry a few "spare" ones in the pocket...

Of course, all those are NOT compatible with the IRF-510 amp. For that one you should use a 12V/4Ah battery for a few hours of contest-style operation (40% key down at 0.9A, 60% at 40mA < 400mAh/hour). As a side benefit, the extra weight in the backpack might convince you to drop all quasi-QRO ideas and go back to the basic radio configuration... hi hi It's obvious that the 5W boost increases your signal strength and gets you more replies, but it's interesting to hear whether it really extends the range...

Have Fun!

ORI AC6AN

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [10191] Re: 38S and voltage regulators
Message-ID: <39533.owen@apollo.eeel.nist.gov>

In message Mon, 27 Jan 1997 18:01:01 -0800,
faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604) writes:

> I use a text-only web browser for the moment, so maybe I don't see it
> for that reason, but I can't find ANY technical information on the
> Eveready page. I was looking for capacity numbers for the 223 lithium
> photo battery.

>

> 73, doug

>

The EL223AP is 6V @ 1300mAh or about the same as you would get from 2 sets
of 4 alkaline AA cells. 72 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: dwink@juno.com (Daniel C Winkler by way of Jerry Parker <jparker@fix.net>)
Subject: [10164] Re: 38S Choke changing made easy. Longish.
Message-ID: <2.2.32.19970128062006.00bad630@fix.net>

On Sat, 25 Jan 1997 13:32:34 -0700 "Bob Follett" <bfollett@ditell.com>
writes:

>Gang:

.... (ker- SNIP!)...

>Oh. I would like to tune the VFO lower. (currently 10.109 to .129) I
>put a

>1.8uH in series with the 6.8, and made it down to 10.083 ummm, not so
>hot. Any ideas...

Bob,

Easy as pie. Add 5 turns to the choke. Here's how.

Orient the choke so that it reads correctly from left to right. The
Yellow (4) band is on the left, silver on the right. Cut a 2 1/2 "
(2" will probably be ok) piece of wire- I used 28 gauge from a 3 pak I
got at Radio Shack years ago. Take the enamel off both ends. Make a
tiny loop in one end and slip it over the RIGHT hand lead of the choke
(the one with the silver band) and snug it up to the choke. Solder it.
Clip off the remainder of the choke's lead. Consider this end of the
choke the BOTTOM, and stand it up. Looking DOWN at this thing, wind
the wire around the choke CLOCKWISE for 5 turns. The wire fits nicely
into the narrow middle portion of the dog-bone shaped choke. I
measured 6.6 uH with 5 turns, 7.05 uH with 6 turns, and about 7.5 uH
with 7 turns. Your mileage may vary. Start with 5 turns. Put it
in the circuit and see if the coverage is what you want.

If the frequency is higher than you started with, then your turns

go the wrong way- you have reduced the inductance from it's nominal 4.7 uH. Perhaps your choke is from a different manufacturer. Or maybe they don't orient the color code the same way on each choke. Re-wind in the opposite direction. Try again. (NOTE: we may need a thread/vote on which way works-- CW or CCW) (Murphy probably flipped my choke around 180 degrees just before it came to the banding portion of the assembly line!)

When you're happy with your frequency range, put some epoxy on the choke to hold the turns. Or hot melt glue, nail polish, Q-dope, airplane cement or model paint. I'm sure you can do partial turns with this technique, too. Just dress the wire lead off at right angles to the body of the choke. Secure it when you've got what you need.

Can't wait to start building mine; just can't stop reading this %^\$#%\$ list! And I just gotta try to do something better for the crystal filter, so I need to do a little breadboarding first...

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Dean T. Miller" <dtmiller@dsmnet.com>
Subject: [10212] Re: 38s hash cure? LONG
Message-ID: <9701281721.AA16390@dsm7.dsmnet.com>

At 11:53 PM 1/27/97 EST, gsurrency@juno.com wrote:

>

>I noticed during some experimentation on several of my QRP rigs, that a
>small ferrite bead can work wonders in reducing spurious radiation.

Okay, guys. Where do you get these tiny beads that just fit around the legs of components? I've got lots of coil-winding toroids, no beads (and can't find them advertised in catalogs).

Along the same lines, does anyone know where to find 'paint-on' insulated ferrite material? I'd like to make my own beads on the traces of some

computer boards that are putting out too much RF (even after sealing the computer case and bypassing/ferriting all in/out leads).

Dean -- from Des Moines (KB0ZDF)

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ori@juno.com (Ori K Mizrahi-Shalom)
Subject: [10160] Re: 38S RIT
Message-ID: <19950127.220805.4367.6.ori@juno.com>

> I solved the chirp and RIT problem with my 38S by removing
> diodes D301 and D302 and piggybacked a homebrew pc
> board on top of the holes. I used two 2N3094's and two
> 2.2K resistors in the base of each. The transistors are wired
> as a simple emitter follower switch with the emitters tied to
> ground. You must use the opposite signal to switch between
> xmit and rx --- the 3904's invert the logical sense.

Jerry,

Sounds like you had installed diodes that are not well matched.
Not a bad idea to buy a few diodes and check them for forward drop at
a low current (0.1mA and 1mA) with a DVM. This will guaranty a minimal
change of frequency between receive and transmit (other than the offset)
when the RIT is switched off.

The absolute voltage drop should not matter much. The saturated switch
you built might potentially suffer from a such mismatch too, although
yours doesn't.

I'm still wondering where the chirp came from in the diode arrangement
that wouldn't show up in the saturated switch circuit. Any ideas?

72/73

ORI AC6AN

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ori@juno.com (Ori K Mizrahi-Shalom)
Subject: [10163] Re: 38S: "clean" board
Message-ID: <19950127.220805.4367.5.ori@juno.com>

> Once appropriate testing is completed by all those modifying the IRF510

> amp, perhaps the 38S board can be modified for future runs to make the
> "best" version of an amp a "no-trace-cut" job and with pads for the
needed
> components. It appears that the basic design will have a very long
life
> and that a 38Sa version may turn out to be in order.

The radio was meant to be a low-power unit, and there was no easy way
to add the amp without cutting a trace (can somebody suggest?)
With a 1000 boards already made, a second rev might be something for the
very long term... hope you're right about the long life cycle!

> A tip of my hat to all those who have made discoveries in their
> experimentation--well done!

Absolutely!

This server has "recruited" great talents and enthusiastic (and
critical...)
"testers"!

To all those I must say: Many thanks. You made a (hopefully) good product
better. We all learn and benefit from those "experiment", so keep up the
good work.

And don't forget your part of the deal - send these mods to Doug KI6DS,
he
loves that kind of stuff! (the good ones I mean...)

Have Fun!

ORI AC6AN

P.S. with all this great technology we have today, can anybody post an
MPEG capture of a melting IRF-510?! hi hi

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Alan Kaul <kaul@netcom.com>
Subject: [10169] Re: 38S: "clean" board
Message-ID: <Pine.3.89.9701272224.A3961-0100000@netcom6>

Re: cutting the traces.

There's always the possibility of building a board with the TRACES
already cut, and placing a WIRE JUMPER, on the board to allow those who
want to stay with low power to avoid high power, etc.

Then of course, the manual has to be re-written. But Doug might want to do that anyway since some of the parts are mis-named on the parts list. That would also allow for CONSISTENCY in labelling between the master schematic and sub-assemblies which use conflicting names.

Or , I guess , we could just leave it alone and spend more time operating on 30M or designing other mods!!!

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [10202] Re: 38S: "clean" board
Message-ID: <Pine.SUN.3.90.970128081432.5803B-1000000@vortex.sage.dri.edu>

Hi All,

Even Motorola radios had traces to cut for various options.
They also had radios that used jumpers for the options.

There is a good board with traces well marked and easy to cut. If you change your mind after cutting, just jumper the cut.

If cutting traces is good enough for Motorola, it's good enough for me!

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Bradley S. Mitchell" <bmitchel@kodak.com>
Subject: [10213] Re: Another TiCK Mystery (in 38S)
Message-ID: <32EF08A6.1C67@kodak.com>

SNickrand@aol.com wrote:

>

> Having completed the stock version of the 38S (and verifying both RX & TX
> operation), I proceeded to the "simple" Tick mod. I did not do the
> "mandatory mod"

It will be hard to hear the Telemetry tones from the TiCK, thus
you will have a hard time telling what mode you are in, and
what speed you are sending at, without this mod.

Note: The mod has a correction on it now.

but followed the book removing R15,R16,C31,D8, replaced R17
> with a 440 ohm, adding VR201, TR201,R202 and C202 ---and cutting the PCB
> track. I found the sidetone from the Tick loud enough but also found the
> dits and dahs reversed as others have reported.

This is an error in the 38S manual.

Most importantly I found
> that it did not key the circuit--i.e. no rf. Removing the tick chip and
> shorting out R14 (as the use a straight key would) I did generate RF.
> Putting the tick back into the circuit, I measured the T- voltage at 7.75v
> on receive (which is ok) and 4-5 volt on transmit (which is not ok, is
> should be zero). Or should it be zero? Since the automatic keyer makes it
> impossible to "hold the key down", perhaps my DMM is only reading the average
> voltage. Regardless, there is still no RF being generated. Although my
> first thought is to replace the 2N2222 (TR201), it will have to wait till
> Tuesday evening. Thought I'd run this past the list to see if anyone had any
> better ideas. One other thing--since making the Tick mod, I have found an
> erratic oscillation. At random times, sometimes in receive and sometimes
> when keying, a sound appears in the headphones somewhat like the sound of the
> light sabers in star wars (fighting badgers?). By moving a wire or touch the
> PCB, it goes away. Don't know if the two phenomenae are related. Bill
> Nickrand KB9KOL

Try using the Straight key mode of the keyer to measure the voltage
at pin 5 of the TiCK. Put the TiCK in Tune mode by holding down the
push button till you hear T in morse code, let go of the button,
and it will key the rig till you hit the button again, or a key
input. Measure pin 5 of the chip. It should be a logic high
when keyed. (between 4 and 5V). the pn2222 inverts this, thus you
should have near 0v on the collector of the transistor.

You might want to do this with a dummy load attached.

On the oscillation.. I haven't got a clue, but with all the
other things going wrong, the first step is to trace the

keyed output of the TiCK's pin 5. If it's going high, then there is something amiss in the board.

73 and good luck.
Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [10127] Re: Antenna Coil

>From: "Thomas J. Whalen" <whalen@swcp.com>
>I use pvc tubing for my coil form and seems to work fine... It is
>wound with equal lengths of # 14 TW wire and 100# test monofilament
>line. The mono is use to space the turns of the wire and it isnt even
>noticeable.

Hi Tom, I'm not knocking your effort - *any* coil will have a higher Q if it is air-core/air-spaced. The PVC and monofilament line have a non-negliblible negative effect on coil Q which has a direct negative effect on coil losses. I also have a home-made bugcatcher coil but it is primarily air-core/air-spaced on a home-made plexiglas coil form and then mounted on an old hamstick. It has more than double the Q of my first coil which was wound on PVC (with no monofilament spacers).

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [10214] Re: Antenna Coil
Message-ID: <Pine.SUN.3.91.970128101955.28258B-100000@kitsune.swcp.com>

On Mon, 27 Jan 1997, Cecil A Moore wrote:

> >From: "Thomas J. Whalen" <whalen@swcp.com>
> >I use pvc tubing for my coil form and seems to work fine... It is
> >wound with equal lengths of # 14 TW wire and 100# test monofilament
> >line. The mono is use to space the turns of the wire and it isnt even
> >noticeable.
>
> Hi Tom, I'm not knocking your effort - *any* coil will have a higher
> Q if it is air-core/air-spaced. The PVC and monofilament line have a
> non-negliblible negative effect on coil Q which has a direct negative
> effect on coil losses. I also have a home-made bugcatcher coil but

> it is primarily air-core/air-spaced on a home-made plexiglas coil
> form and then mounted on an old hamstick. It has more than double
> the Q of my first coil which was wound on PVC (with no monofilament
> spacers).

>

> 73, Cecil, W6RCA, OOTC

>

Hi Cecil, I will have to agree with you entirely on air wound coils being more efficient than one wound on pvc. I was thinking of a simple design for a coil that was easy to construct, cheap, and still be fairly efficient. I built a 160m coil one time out of 1/4 inch copper tubing that was about 18 inches long 1 foot dia. and had about 2tpi! It worked real well for a base antenna, but for mobile NOT! How about an article on your homemade bugcatcher coil?? Thanks, 72, Tom WB5QYT

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: PaulKB8N@aol.com

Subject: [10220] Re: Audio AGC pop

Message-ID: <970128135406_647605915@emout03.mail.aol.com>

Tom,

Jack Bryant, W5TFB, has built a nice little AGC circuit for the Omni A that I sold him about a year ago. He is at Texas A&M University and is a regular contributor to this forum.

Paul, KB8N

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: kd7s@psnw.com (Bill Jones)

Subject: [10149] Re: Autech Research QF-1 Filter

Message-ID: <199701280440.UAA12122@sierra.psnw.com>

Tom,

Don't discount the QF-1 just because it's old. It is still a very good audio filter and can be used to good advantage on many solid state rigs as well as boat anchors. I use one with my faithful HW-8 not to mention several other rigs.

Autek is still in business. They are the ones that sell the RF-1. You can find them advertised in QST or CQ magazines (I'm not sure which.) As for the hum, probably all you need do is replace the filter capacitor in the built-in a.c. power supply. It's worth the time and effort.

>Hi Again,
>I have an Autech Research QF-1 audio filter that used to be somewhat useful,
>although I'm sure it pales in comparison to modern DSP filters. Does anyone
>know if this company is still around? I turned this thing on after years of
>non-use and it just hums very loudly. Would be nice to repair it for use with
>some boat anchors.

=====
Bill Jones - KD7S <><
Sanger, California
Reply to kd7s@psnw.com
=====

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [10176] Re: Autech Research QF-1 Filter
Message-ID: <Pine.SOL.3.94.970128065730.27644E-100000@utkux4.utcc.utk.edu>

Autech Research
P.O. Box 8772
Madeira Beach, FL 33738
813-886-9515

They produce the RF Anbalyst and VHF Analyst (for antenna work) and remote
SWR/Wattmeters as well.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [10179] Re: Conditions last night
Message-ID: <199701281238.HAA07016@alaska.magpage.com>

>We had a frontal passage here today about 2200Z, and although
>nothing but wind and cold with it, perhaps that accounted for
>the QRN....

Hi Larry,

Right at greyline I was listening to some Saudi and North African powerhouse SW stations between 9.5 and 10M. Signals were 40 dB below normal and dropped out in 10 minutes. I listen to these guys everyday to get a feel for 30M and was astounded at the drop and NO grey line peak.

Went to 5.960 to catch the news from Canada and it too was terrible by 6:30 EST and normally it is 50 over. Lots of absorbtion and no enhancements at all.

That's bad condx :) CUL, Jim K3QIO Delaware

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Ed Tanton <n4xy@avana.net>
Subject: [10141] Re: Dentron Radio tuner
Message-ID: <3.0.32.19970127230812.009c58a0@tiger.avana.net>

Hi Tom... I used my Nye Viking MB-V-A during my stint of FSFD @ 5W and all the time as needed! Try to see if you can IN/OUT it while listening to some specific moderate signal: if you can barely tell-or not at all-any difference, the loss is acceptable and won't matter!

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [10195] RE: Dentron Radio tuner
Message-ID: <40997.owen@apollo.eeel.nist.gov>

In message Mon, 27 Jan 1997 23:00:06 -0500 (EST), TMOLL@aol.com writes:

> Hi,
> I have an old Dentron Radio 160-10AT Transmatch tuner that has always
> worked exceptionally well for QRO work. Is a tuner like this suitable for

> qrp use with twin lead or open wire line, or is there too much loss in
> the balun?

Over the years I have run the 275W Johnson, 1KW Johnson and the Dentron.
Running 800 Watts output into either of the Johnsons with a Windom, I had no
problems. Put the Dentron in line and I could fry eggs on the top cover, in
fact I blistered the paint but didn't melt the coil. The Dentron would tune
to 1:1 just like the Johnson's but I didn't get as good signal reports. You
be the judge. 72 Jim K4CGY qrp-1 #72
>

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [10134] Re: FOX tonite?
Message-ID: <1.5.4.16.19970127210559.298f12bc@destin.nfds.net>

At 08:50 PM 1/27/97 EST, tahrens1@juno.com wrote:
>Anybody hear Ron on? Maybe I missed a
>late post on his hours.

I never saw any hours posted. And 40 meters here is really noisy with
static tonight, makes 4 nights in a row!

72/73

--
Bill Myers KK4KF Grid - EM60rk
FISTS#2390 QRP-L#755 ARCI#9282 scQRPions#42 CQC#386 NE#508
Snail Mail P. O. Box 178 Shalimar, FL 32579
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>
(Reptiles/Emergency Services/Amateur Radio)
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
<http://n9nvv.qrp.com/~fists> (That's N 9 N V V)

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: kf2ph@juno.com (Nick Franco)
Subject: [10138] Re: FOX tonite?
Message-ID: <19970127.221457.9974.1.kf2ph@juno.com>

Tim,

I searched searched the last hour of the 0100-0300 sched I had marked off

for tonight and never heard him or anyone work him (nothing new for LINY :-)

I did manage a shaky QSO with Paul - WA9PWP from 0300 to 0315 though. So a good qrp-l night after all :-)

nick - kf2ph

--

Nick Franco <>< KF2PH/qrp
QRP-L # 13 NE-QRP # 349 ARS # 128 LIQRP
Music Minister - Church of the Nazarene
Patchogue, LI NY Suffolk County

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [10242] RE: FS: DX-70T -- SOLD!!--
Message-ID: <19970128.173737.7943.3.wb2vuo@juno.com>

The title says it all...

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, Tech Specialist (ARRL/WNY),
ARRL Life Member, VP/BARK, Beacon Chaircritter, Rochester VHF Group
Trustee, KB2YTW/B 10 Mtr QRPP Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam
Email - wb2vuo@juno.com

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Joe Gervais <vole@primenet.com>
Subject: [10229] Re: FYBO and Explorer II
Message-ID: <199701282029.NAA21419@usr09.primenet.com>

Christopher (N3XRV) wrote:

>

> The QRPP multiplier is the only one I stand a chance of missing.
> So my question is, would there be any ill effect to turning R23
> (drive adjust) to 0.95W out? ... Did I mention that I'll be signing
> N3XRV/T?

FYBO Pileup Time! :-) With all the other multis plus being
worth 5 points to the rest of us, I think you'll already have
more than enough points than you'll know what to do with!

OTOH (NAA ('Net Acronym Alert)! - "On the other hand") if you put up some nice antennas, running QRPp would put you in a position to crush us all point-wise.

Of course we may never talk to you again either.... :-) :-)

At Saturday's ScQRPions meeting I'm going to see if I can interest the Frozen Chosen FYBO Crew in cross-country skiing. You see, there's this GREAT lookout tower on a finger of land, with 1500' cliffs on three sides. We're talkin' *gain*, folks. No vehicle access in the winter though....

So Mike... Ever been on x-country skis before? Ready for your first time...? :-)

Cheers de AB7TT (ex-KC7NEV),

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: PA3ASC@mailbox.hol.nl (Mike Perry)
Subject: [10225] Re: Help with a 'T' Matching Network
Message-ID: <199701282000.VAA05377@bonny.hol.nl>

On Mon, 27 Jan 1997 14:42:22 EST
Tim W5FN <tahrens1@juno.com> wrote:

>Hi Everybody - I need a little help with
>a 'T' matching network. Input & output
>impedance is the same - $76.02 + j0$
>Input voltage & angle: 54.59v, 29.22 deg
>output voltage & angle: 54.49v, 65.70 deg
>What Capacitor values (2), and inductor value
>(1) are correct at 3.8 MHz?

Hi Tim,
The phase shift through the network must be
 $65.7 - 29.2 = 36.5$ deg. Because the input
and output impedances are both $72 + j0$ ohms,
the network must be symmetrical.
Cruching these numbers gives a Tee network
in which the series elements are $-j25.1$ ohms
and the parallel element is $+j127.9$ ohms.
At 3.8 MHz the inductor should be 5.36 uH
and the capacitors 1669 pF.
If you tell me the Q of the coil I'll run the thing

again and compute the circuit loss.

Hope this helps.
Best 73 de PA3ASC

--

Best regards from The Netherlands,
Mike Perry. [e-mail :- PA3ASC@mailbox.hol.nl]
=====

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Clay N4AOX <wyn@worldnet.att.net>
Subject: [10122] Re: Johnson MatchBox Answer
Message-ID: <32ED473F.381B@worldnet.att.net>

PaulKB8N@aol.com wrote:

>
>
> If you can find one in decent shape, I believe that you'll have something of
> lasting value that will efficiently meet your needs for many years to come.
> That may explain why these superb tuners are so hard to find at almost any
> price.
>
> 72/3, Paul, KB8N

I agree with Paul. I wish someone would offer me a nice one with swr bridge
for \$70!

72/73,
Clay N4AOX

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: [10155] Re: Johnson MatchBox Answer
Message-ID: <Pine.SUN.3.95q.970127221019.4734C-100000@ume>

I have the small one, without the meter. I use it to feed a 85 foot
(total length) inverted vee up 60 feet fed with 100 feet of
450 ohm ladder line.

This is a great tuner.....for the bands intended only!
I is easy to use and I can get a broad freq match easily on 80 through 10

without difficulty. I cannot get it to even come close to giving me a match on 30 or 17. (Did not bother with 12m).

As such, it is not my main tuner, as I do like to use 30 m from time to time. I suspect it could be modified easily enough but mine is near mint condition, older than I am, and will likely look better than me in another 40 years if I leave it that way!

Dr. Rick Zabrodski BSc, MD, CCFP(E) MRO * VE6GK
Clinical Assistant Professor * NorCal 519 ARCI 7650 GQRP 8329
Faculty of Medicine, Univ. of Calgary * "Power is no substitute for skill"

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [10187] Re: Johnson MatchBox Answer
Message-ID: <38271.owen@apollo.eeel.nist.gov>

In message Mon, 27 Jan 1997 15:36:53 -0800,
Vic Rosenthal <rakefet@rakefet.com> writes:

> PaulKB8N@aol.com wrote:
>
>>
>> They are also underrated
>> ran full output from a Drake L-4B (1KW+) into the 275W Matchbox and
>> tuned an 80M Double Zepp on all bands with outstanding results. Is
>> there any wonder why the KW Matchboxes are so much in demand? They
>> probably can handle 5KW!
>
> I've also seen the plastic strips that support the coils melted!
> So the 275 watts is for real, unless you want to live
> dangerously. Also, I agree that a price of \$75 to \$125 is about right.
> I'll buy all the \$25-\$35 ones you got!
>
> Vic K2VCO
>

Actually the 275 watt rating is for 100% plate modulated AM. Therefore the DC or CW/SSB rating is about 4X the 275 watts or 1 kw. I used one for years with a Heath SB-200 and windom on all bands with 800 Watts out and no problems. 72 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>
Subject: [10194] Re: Mailbox full?
Message-ID: <97Jan28.101757-0500_est.10421-15356+1@hooch.cc.Lehigh.EDU>

> >Is anyone else getting "mailbox full" messages from their provider when
> >attempting to post to this list? I have gotten two within the past week.
>
> Yes. Very strange. Got the mailbox full message AND my message reflected
> from the list. Don't know what to make of it.

There are brain-damaged mailers at some sites that will, in the event of a delivery failure, bounce the mail to the original author (you) instead of the sender (the list server). If you get the bounce then I never see it and can't remove the offending subscriber from the list. So please forward any delivery failure notifications you get when posting to the list to me, lujce@Lehigh.EDU. Thanks!

73
Jim N3VXI

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: ori@juno.com (Ori K Mizrahi-Shalom)
Subject: [10161] Re: NC38S: CMOS gate termination?
Message-ID: <19950127.220805.4367.4.ori@juno.com>

> Good engineering practice requires that CMOS gate inputs
> be held either high or low, and NOT left to float.

Glen,

This is true in general, when the gates are pure CMOS (like when you design an ASIC chip).
The HC family has "other things" around the gate structure, some for protection, some for meeting design specifications.
The input of the 74HC240 shows a low resistance to ground (notice the 2.2K pull-up resistor on the key line - more resistance won't do the job!)
Thanks for the note, though.

ORI AC6AN

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Bill Todd <bill@techline.com>
Subject: [10167] Re: Rescheduled FOX/Excuse
Message-ID: <1.5.4.32.19970128063503.00679d30@mail.techline.com>

>Date: Mon, 27 Jan 1997 22:34:19 -0800
>To: majewski@erim.org
>From: Bill Todd <bill@techline.com>
>Subject: Re: Rescheduled FOX/Excuse
>
>At 12:52 AM 1/28/97 EST, you wrote:
>>
>>Hello to all,
>>
>>I somehow managed to miss my scheduled night as the FOX earlier this week.
>>My apologies -- I have no good excuse and can't invent one that will make
>>for good reading.
>
>Hi Ron -
>
>How about "I was taken by Aliens to Alpha Zygote IV and made a member of
>the super-secret "Galactic Brotherhood". Sounds good to me....
>
>In fact, I was abducted just last week...and the whole event was really
>cool!
>
>CUL, Bill-N7MFB
>

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [10177] Re: stacking
Message-ID: <Pine.SOL.3.94.970128070044.27644F-1000000@utkux4.utcc.utk.edu>

Stacking beams is quite feasible. Even though most stackers use two of the same, the 3-2 element stack would work. The ARRL Antenna book has some information on stacking.

Chief drawback is physical: can the tower and mast and rotator handle the stack? The forces on the upper section of the mast can be quite high compared to an antenna of the combined weight on a short mast close to the tower top and thrust bearing. Overcoming these mechanical problems can also cost a bundle in making sure that the structure is up to the task.

On the other hand, if it is affordable and mechanically doable at your installation, antenna costs may be the smallest fraction of the cost, and matched beams may be in order.

For safety's sake, please do not stack HF beams on a marginal tower installation. (This is not the same as adding a 2-meter beam 6' above the HF beam.)

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Bob, W4ED" <rbe@atlanta.com>
Subject: [10130] Re: Suggestions for backpacking antennas
Message-ID: <32ED9207.3DF4@atlanta.com>

Larry Gagnon wrote:

>
> ... I want to construct a QRP backpacking antenna(s) ...
> ... I'd love some suggestions! ...

Larry, My field proven 40/20m vertical is in item #2 on the following ARS page:

<http://members.aol.com/aa7qu/tfridx.html>

It also tunes on 15m, but patterns on 15m aren't the best.

No tuner needed on this design.

--

Bob 72/73

W4ED x_AE4CA nr Atlanta @EM73wt
...."QRP", more from less....
:EMPS QS0s=84 STATES=28/7 DX=??

```
      /|
     / |
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 ~~~~~~
```

From owner-qrp-l@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: dwink@juno.com (Daniel C Winkler)

Subject: [10137] Re: Trimmed 40m dipole to 30m, but...
Message-ID: <19970127.191354.4951.4.DWink@juno.com>

On Mon, 27 Jan 97 15:17:00 -0600 ed.welch@cheaha.com (ED WELCH) writes:

>The range of SWR reading are from 10.00mhz - 10.30mhz. These range
>from
>1.60 to 1.70. Resistance is high averaging about 85 ohms. The
>resistance, I guess, is what's throwing me. ...(snip)...
>the SWR/resistance readings don't seem right to me.

Ed,

My calculator shows $85/50 = 1.7$. Your meter is spot on. Height of your antenna may be causing this higher than expected radiation resistance from a dipole. EZNEC says 47.2 feet of #14 at 30' high gives $88.59 + j0.4$. In other words, reality matches the modeling. Use a tuner and use the antenna. Or attach a 1/4 wave section of 75 ohm coax (RG-59)(use your meter to trim to exact 1/4 wave). That would transform the 50 of your main feedline up to 112.5 ohms, but the swr mismatch is down from 1.77 : 1 to 1.27 : 1. Or be realistic and just use the antenna as is without a tuner. The higher resistance may lower the output of your 38s a tiny bit, but I doubt anyone will notice.

You could also lower that antenna resistance by making it an inverted V.

EZNEC says: droop each end by 30 degrees ----> $70.6 - j7.6$
droop by 40 degrees ----> $57.75 - j19$
droop by 45 degrees (center angle 90) ----> $50.6 - j 26.9$ pretty close....
lengthen each wire by 0.4 feet (to 24' each leg) -----> $53.3 + j0.4$

So there you go. Inverted V, apex 30', legs of 24', 90 degrees at apex. (That puts the ends about 13' up). You could also leave the ends- just loosen a little, and haul coax down, bringing center down. With leg ends at 30' and center at 13' (still 90 degree angle and 24' legs) ----> $39.3 + j 0.47$. Note that the resonance hasn't changed, only the resistance has fallen. Clearly we need center higher (better for dx, too). Let's keep the ends at 30', and bring the center down so's the legs are drooping only 30 degrees instead of 45. EZNEC says $62.88 + j 24$, so we need to shorten again. Back to 23.6' per leg----> $60 - j4.6$.

Closer to resonance, but resistance too high (actually its fine with swr 1.22 : 1). Drop center a little more...

You get the idea. You can tune your antenna by pulling on the coax and changing the the center height. You will find a best spot-anchor it there.

Buy EZNEC-- it'll be the best \$90 you ever spent. ELNEC is a little cheaper, but not as accurate, but might do just fine for you. Usual disclaimers, just a VERY happy customer. The only thing better is an MFJ 259 swr analyzer, but you already know that.

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle,
WA-----whom the gods would destroy, they first make proud

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: dwink@juno.com (Daniel C Winkler)
Subject: [10173] Re: Trimmed 40m dipole to 30m, but...
Message-ID: <19970128.000650.4951.13.DWink@juno.com>

On Mon, 27 Jan 97 23:39:00 -0600 ed.welch@cheaha.com (ED WELCH) writes:

>sloping dipole out of it? Upper end coming down from 30-35' with the
>low in landing at a height of 12'. Doesn't this create more gain in
>it's favored direction?

Yeah, but I tried it on EZNEC and just got a few db attenuation on the back (high) end. It's forward gain (toward low end) was actually less than gain off sides by a db. Impedance was $79 + j11$, with high end at 30' and low end at 7, length 47.2' (I hadn't read your post carefully.)

With a 46.9' wire going from 30' to 12' I get: $78 + j0.5$, 4dbi at 40degrees elevation off the sides, 3db down in the "forward" direction and 7-8 db down off "the back" (high end). It seems that for a sloper to work, it needs to be more vertical than horizontal. This one is too laid back!

>Hmmm, ok. My dipole is supported only at the ends with no center
>support, thus it does sag a tad. I think I'll tighten up on it a tad
>and try to make it flat-topped and see what happened.

That will probably RAISE your resistance. You need to get the

center down a little to lower it to 50 ohms. Or make an angle of the 2 legs.

> I'm gonna play
>with dropping it, too, just to see what you're talking about. I know
>from a 40m full loop that I've got vertically strung in a pecan tree
>that just moving the feedpoint a few feet will change things a good
>deal....it's about 1.2:1 through most of the CW band, but if I raise
>it
>5 feet things start going crazy. Interesting.
>
>-> Buy EZNEC-- it'll be the best \$90 you ever spent. ELNEC is a
>-> little cheaper, but not as accurate, but might do just fine for
>you.
>-> Usual disclaimers, just a VERY happy customer. The only thing
>-> better is an MFJ 259 swr analyzer, but you already know that.
>
>Yelp, got the MFJ-259, but.....it sure would be nice to sent inside
>and
>toy with antenna designs and *then* go out throw it up and finish the
>job up with the 259. Does it do quads, too?

It will do quads and almost anything except feed a wire from it's end. Turns out it is actually impossible to do so, but practical systems manage by having a "counterpoise", which is actually the other leg of a lop-sided dipole. Your coax braid will serve that function, too, if allowed.

>Got any contact info for me.

ELNEC and EZNEC are advertised in QST- saw an ad this month. You might also check out the recent (Yesterday?) posting by LB Cebik on modeling programs. There are free things out there.

Enjoy

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997

From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

Subject: [10174] Re: Trimmed 40m dipole to 30m, but...

Message-ID: <Pine.SOL.3.94.970128054805.27644A-100000@utkux4.utcc.utk.edu>

Ed,

The antenna feedpoint impedance for your 30 meter dipole at 30-35' up is correct. At about $\frac{3}{8}$ wavelengths up, a resonant dipole will have a feedpoint impedance in the 85-90 ohm range. For an idea of how feedpoint impedance changes for low height dipoles, see the graphs in the second installment of the antenna series in Low Down. The ARRL Antenna book may also have a similar chart. Remember that when cut for 40 meters, the antenna was lower as a percentage of a wavelength and therefore had a different feedpoint impedance.

For general purpose operating purposes, I suspect that a matching network would cost as much or more loss as the 1.7:1 SWR on the coax at 10 MHz. So if the rig is happy, that is, loads well into the feedline-antenna system, then you can operate equally happy. Signal strength--both incoming and outgoing--will not be detectably different from 1:1 (under a dB or less than $\frac{1}{5}$ - $\frac{1}{6}$ an S unit).

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [10175] Re: Trimmed 40m dipole to 30m, but...
Message-ID: <Pine.SOL.3.94.970128062350.27644D-100000@utkux4.utcc.utk.edu>

>

> Buy EZNEC-- it'll be the best \$90 you ever spent. ELNEC is a
> little cheaper, but not as accurate, but might do just fine for you.

Good ideas on dropping the feedpoint impedance, although 1.7:1 is a perfectly usable SWR if it is advisable by site considerations to keep the ends up. 45 degrees will drop the ends by 20-25'; 30 degrees will drop them by 12' or so--all assuming a center support. Hence, physical feasibility plays a role in what to do.

Chief note here is that the NEC-2 engine in EZNEC is more accurate, especially for low wire antennas of the sort most QRPers have an intense interest in. MININEC, the engine in ELNEC grows more inaccurate as the antenna height drops below 0.2 wavelength (which is about 55' on 80 meters). And loops with right angles are easier to directly model on NEC-2.

However, NEC-2 has limitations, especially when you want to model antennas with wires/tubes of different sizes. If you get into this area of modeling, consider also having a version of MININEC (ELNEC, AO, or NEC4WIN) on hand also, one with provision for element length tapering preferably, which is necessary in MININEC for most angular junctions.

NEC-4 overcomes most of the limitations of NEC-2, but is proprietary and expensive for ham acquisition--something over \$800 for those without a university affiliation (\$150 for educational purposes)--and then you receive a TAREd UNIX FORTRAN program that requires compilation for use on a PC. For those in engineering circles who may want NEC-4 and have resources to register, but not want to spend the time preparing it for use in a PC (and who do not have a mainframe to use it on), look for a commercial implementation in the near future. You will still have to register for NEC-4 and pay for the interface/implementation, but the aches and pains of set-up will be relieved. NEC-4, incidentally, not only allows all that NEC-2 does, but also handles wire junctions of different diameters and permits radial systems underground (for vertical antenna system developers).

Rockway and Logan, the original developers of MININEC, have rebuilt the algorithms and now offer a range of revolutionized MININECs for basic through broadcast engineering users with apparently none of the restrictions of standard MININEC. The student/hobbyist version is over twice the cost of ELNEC or AO and 50% higher than EZNEC. Program is set up for windows.

With NECWin Basic and Pro, EZNEC and EZNEC-M, and NEC Wires in the NEC-2 category; ELNEC, AO, and NEC4WIN in the older MININEC category, and MININEC (for Windows or Professional or Broadcast) in the new MININEC category, selection of software is likely to be more difficult than ever. Not long ago, W7EL and K6STI were the only two developers in the game (with shortlived items like Antenna Model, an interesting MININEC with some attempts to replicate early Windows features in DOS). And do not forget that there are also some interesting special purpose non-NEC modeling programs out there.

As with all software, odds are that your first modeling program will end up being your favorite--whatever the direction of its evolution and upgrade.

This has been the antenna modeling equivalent of someone else answering the question, "What's available in 40-meter QRP kits?" except it is shorter, since there are fewer.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: "Michael Connor" <mikec@primenet.com>
Subject: [10168] Re: TT rig on the air..(long)
Message-ID: <199701280639.XAA09006@primenet.com>

> From: JCoote@aol.com
> To: mikec@primenet.com
> Subject: Re: TT rig on the air..
> Date: Monday, January 27, 1997 6:56 PM
>
> In a message dated 97-01-26 12:50:45 EST, you write:
>
> > Gang,
> >Got the TT rig completed late last night
> >and after some final tweaking will be on
> >around 7.040 most of the day.:-)
> > Looks like a good one.:-)
> >
>
> Let me know what you think about the Tentec kit. I am thinking about
it....
>
> 73,
>
> Jay

Hi Jay,
I really can't think of too much to add over and above Chuck's
review. Its a decent kit that I think I'll have a lot of fun with.
Maybe I can offer my own likes/dislikes.
Likes:

The manual is well written with assembly broken up into Phases
of construction with testing of most phases after completion.

A nice touch is an explanation of the workings of the circuit for
each Phase that you're building, so you're kinda learning about it
as you build.

The receiver seems to be as sensitive as most comparable kit rigs,
but it may be just a little quieter. Haven't really had enough playing
time with it yet, but thats my initial impression.

The thing is built like a tank, ie. solid.:-)

The built in speaker is a nice touch, and there's plenty of audio to pump through it.

I've not used it a lot yet, but have not been able to detect any noticeable drift during initial power up.

QSK is S-M-O-O-T-H.

Transmits around 2.5W, and appears to be a nice clean tone.

Extra features like sidetone and RIT are nice to have.

Out of over 200 board parts, not anything missing.

Dislikes:

All the rear panel jacks are RCA. We all know about using RCA plugs for power, right?:-) There are three mounted on a single board that bolts to the rear panel. Gonna change them to match all my other rigs.

RIT Control: OK, this isn't really a dislike, but something I noticed. The RIT has no on/off in/out kinda thing. You align the rig with the RIT at 12 o' clock. Its right next to the TUNE pot, and I just know that I'm gonna bump it someday and not realize that I've done it and then wonder why nobody is coming back to me.

I've been spoiled by the center detent RIT control on the OHR 400. The ON-OFF switch for the RIT on the Norcal 40A is another example. This isn't really a big thing, just the nature of this particular beast. I'm sure that adding a switch would be no big thing to do.

Bandwidth is a little wider than I'm used to, around 1K or so. Some people like it a little wide but I'm used to around 500hz or a little less. Scaf filter or RS DSP works fine with it.

Sooner or later someone will probably mod it up to be narrower.: -)

My "dislikes" should be taken with a grain of salt. Everyone has their own preferences and I can speak for no one else but myself. I really don't consider them dislikes as much as differences in what I'm accustomed to. I certainly would not hesitate to buy the rig because of them.

I kinda get the feeling that TenTec was more concerned with designing the nicest circuit that they could for a \$95 rig, and decided that if they had to cut corners it would be on things like panel connectors, etc. Just my opinion.

Do I think I got a good rig for \$95? You bet. Heck, even if it didn't work at all, I got my money's worth just building it.: -) The fact that appears to work good is just a bonus for me.: -)

FWIW,

Mike
NQ7K

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [10184] Re: TT rig on the air..(long)
Message-ID: <199701281413.0AA14506@chuck.dallas.sgi.com>

Mike et.al.,

You don't have to worry about the bumping of the RIT knob. You won't move it far enough to get anything out of the bandpass of the filter. :-) It is wide. I posted 900-1000Hz. I think after using it some I have to move that figure up to 1500Hz.

Now please note gang. Yesterday, while teaching a class I noted that I could hear the osc freq of the horizontal sweep in the terminals. I'm sitting in front of another terminal as I type this and I can hear it. My upper frequency limit has always been high but for some reason the sensitivity level has gone up some more. Strange. Guess cleaning them up once in a while with drops helps. :-)

FYI
SIG
Chuck Adams K5FO adams@sgi.com
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Tue Jan 28 18:02:42 1997
From: Joe Gervais <vole@primenet.com>
Subject: [10124] Re: WEST VIRGINIA FSFD TONIGHT-Monday
Message-ID: <199701280110.SAA24522@usr04.primenet.com>

Jim (K3QIO) wrote:
>

> W8PT, Rich will be on tonight propagating from West Virginia:

Nooooooooooooo!!!! Oh cruel world, why must you mock me!?!?
I am, of course, trapped at the office for the night. *sigh*
I'm trapped in the middle of a Kafka novel, is that it?

Pray tell, good sir, does WV have plans for one more FSFD evening? With a mere 24 hours of notice I can tweek my work schedule, but alas not once I've passed through the infernal gates of the office....

Cheers de AB7TT (ex-KC7NEV),

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

PS- Thanks for the heads-up Brian! At least you tried.